

# Petroleum Marketing Monthly

**December 1997**

**With Data for September 1997**

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# Contacts

The *Petroleum Marketing Monthly* (PMM) is prepared in the Energy Information Administration (EIA) under the general direction of Charles P. Shirkey (202) 586-6567, Petroleum Marketing Division, Office of Oil and Gas, EIA.

Detailed technical questions for specific areas of the PMM may be directed to the EIA staff listed below.

For primary program responsibility:

- Charles W. Riner (202) 586-6610  
Internet E-Mail: criner@eia.doe.gov

For tables referencing the EIA-782A, the EIA-782B, and the EIA-782C:

- Kenneth Platto (202) 586-6364  
Internet E-Mail: kplatto@eia.doe.gov

For tables referencing the EIA-14 and EIA-856:

- Lamar Gowland (202) 586-6608  
Internet E-Mail: lgowland@eia.doe.gov
- Elizabeth Scott (202) 586-1258  
Internet E-Mail: escott@eia.doe.gov

For tables referencing the EIA-182:

- David Gatton (202) 586-5995  
Internet E-Mail: dgatton@eia.doe.gov

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- *Petroleum Supply Monthly*  
Updated between the 23rd and 26th of the month.
- *Petroleum Marketing Monthly*  
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- *Weekly Coal Production*  
Updated on Fridays by noon.
- *Quarterly Coal Report*  
Updated 40 days after the end of the quarter.
- *Electric Power Monthly*  
Updated during the first week of the month.
- *Monthly Energy Review*  
Updated the last week of the month.
- *Short-Term Energy Outlook*  
Updated 60 days after the end of the quarter.
- *Winter Fuels Report* (October through April)  
Propane inventory data updated Wednesdays at 5 p.m. All other data updated Thursdays (Friday in event of a holiday) at 5 p.m.



# Preface

The *Petroleum Marketing Monthly* (PMM) provides information and statistical data on a variety of crude oils and refined petroleum products. The publication presents statistics on crude oil costs and refined petroleum products sales for use by industry, government, private sector analysts, educational institutions, and consumers. Data on crude oil include the domestic first purchase price, the f.o.b. and landed cost of imported crude oil, and the refiners' acquisition cost of crude oil. Refined petroleum product sales data include motor gasoline, distillates, residuals, aviation fuels, kerosene, and propane. The Petroleum Marketing Division, Office of Oil and Gas, Energy Information Administration ensures the accuracy, quality, and confidentiality of the published data in the *Petroleum Marketing Monthly*.

## Scope of Data

The data within the *Petroleum Marketing Monthly* are compiled from six Energy Information Administration (EIA) survey forms. The crude oil statistics are calculated from data collected on the following three survey forms: Form EIA-182, "Domestic Crude Oil First Purchase Report"; Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report"; and Form EIA-14, "Refiners' Monthly Cost Report."

The statistics on petroleum product sales prices and volumes are derived from Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and Form EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

The data presented in Tables 48 to 50 are derived from aggregations of data from Form EIA-782C, "Monthly Report of Prime Supplier Sales of Petroleum Products Sold for Local Consumption."

## Sections

Monthly statistics on purchases of crude oil and sales of petroleum products are presented in the *Petroleum Marketing Monthly* in five sections:

- Summary Statistics
- Crude Oil Prices
- Prices of Petroleum Products
- Volumes of Petroleum Products
- Prime Supplier Sales Volumes of Petroleum Products for Local Consumption.

The publication highlights salient statistics for the United States in the Summary Statistics section. More detailed geographic coverage occurs in the other four sections. Geographic coverage for crude oil includes country of origin for foreign crude and Petroleum Administration for Defense (PAD) Districts and individual States for domestic crude oil. Geographic coverage of the petroleum products includes PAD Districts and individual States.

Detailed statistics for crude oil, including the price of imported crude oil by country of origin, by gravity, and by crude stream, can be found in the Crude Oil Prices section.

PAD District and/or State-level statistics for petroleum products are presented in the Prices, Volumes, and Prime Supplier Sales of Petroleum Products sections. To aid the reader in determining the market changes, the majority of the tables show data for the report month and previous month for the current year, and the report month for the previous year.

## Notes on the Tables

- For the crude oil statistics referencing Form EIA-182, United States includes the 50 States, the outer continental shelf, and the District of Columbia. For crude oil statistics referencing either Form EIA-14 or Form EIA-856, United States includes the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, and all American territories and possessions. For the petroleum products data, United States includes the 50 States and the District of Columbia.
- Prices exclude taxes. Refer to the Explanatory Notes for a tax table on motor fuels.
- Some of the tables use State abbreviations. Refer to the Explanatory Notes for a table of U.S. Postal State abbreviations.
- Sales of leaded gasoline are reported in the Conventional gasoline category by appropriate grade in the Prime Supplier Sales Volumes section, but are excluded from gasoline sales prices and volumes in all other sections of the publication.
- Leaded gasoline is a component of averages and totals prior to October 1993.
- References to "Refiners" include gas plant operators (see the Glossary for definition of "Gas Plant Operators"). All tables whose titles do not specifically reference "Refiners" contain data from all sellers. "All Sellers" includes refiners, gas plant operators, resellers, and retailers.
- "Prime Supplier" refers to a firm that produces, imports, or transports any of the selected petroleum products across State boundaries and local marketing areas and sells the product to local distributors, local retailers, or end users.
- The category "Retail Outlet" refers to any company-operated outlet selling gasoline, on-highway low-sulfur diesel fuel, or propane for on-highway vehicle use (see Glossary).
- No. 2 distillate volumes and prices are classified in accordance with what the product was sold as, regardless of the actual specifications of that product (see definitions of No. 2 distillate in the Glossary).

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# Feature Article

- *Propane Market  
Assessment for Winter  
1997-1998*

# Propane Market Assessment for Winter 1997-1998

by David Hinton and John Zyren

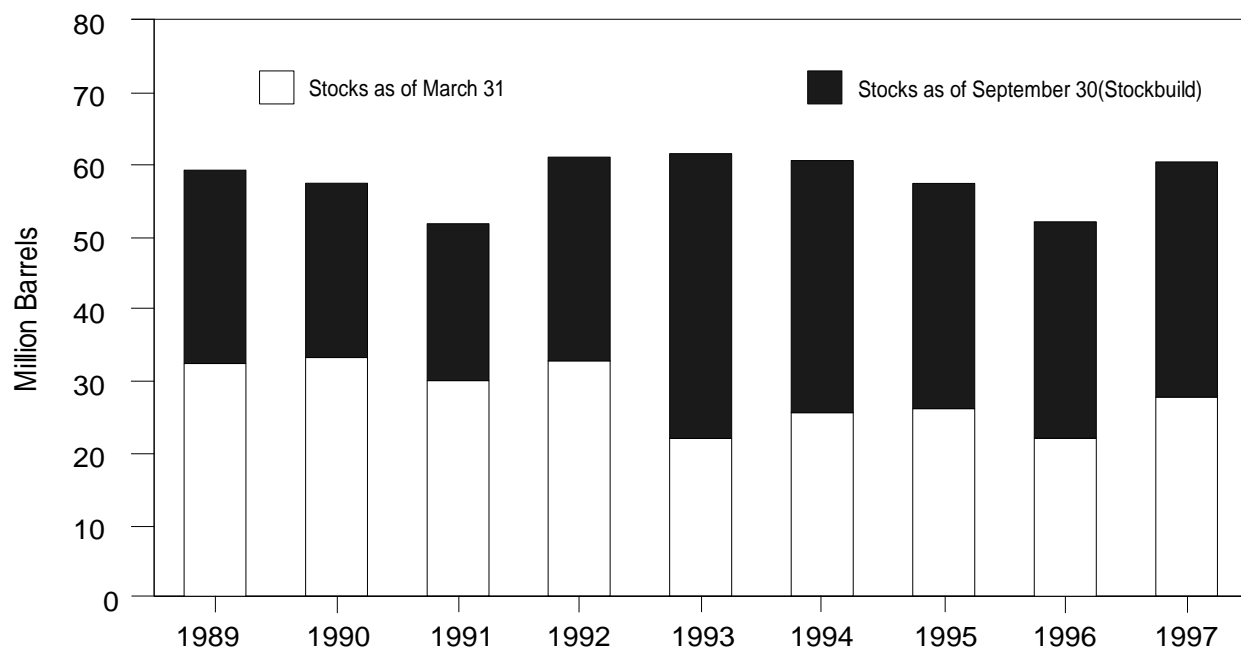
## Summary

This article reviews the major components of propane supply and demand in the United States and their status entering the 1997-1998 heating season. Other influences on prices are also discussed. Finally, a base case and two alternative scenarios are described for the heating season assessment. The alternative scenarios focus on inventory levels and residential prices.

Propane markets entering the 1997-1998 heating season face an environment in sharp contrast to what confronted propane

markets a year earlier. In late summer 1996, in response to relatively low inventory levels and tight world oil markets, prices for crude oil, natural gas, and products derived from both, including propane, began to increase rapidly ahead of the winter heating season. Both public and private consensus foresaw the potential for supply shortfalls and continued sharp price increases, especially in the event of unusually severe winter weather. In particular, propane markets were subject to a combination of factors that caused extreme market volatility, resulting in spot propane prices reaching 50 cents per gallon by the start of the heating season, and rising to 107.5 cents per

**Figure FE1. U.S. Propane Stocks as of September 30, 1989 - 1997**



Sources: Data for 1989 through 1996, Energy Information Administration (EIA), *Petroleum Supply Annual* 1989 through 1996, DOE/EIA-0340(89-96), Volume 1, Table 2; data for January through July 1997, EIA, *Petroleum Supply Monthly* 1997, DOE/EIA-0109(97/03-09), Table 2; and data for August through September 1997, EIA, Form EIA-807 "Propane Telephone Survey."

Unless otherwise referenced, data in this article are taken from the following: *Petroleum Supply Monthly*, September 1997, DOE/EIA-0109(97/09); *Petroleum Supply Annual* 1996, DOE/EIA-0340, Volumes 1 and 2 and predecessor reports; *Petroleum Marketing Monthly*, July 1997, DOE/EIA-0380(97/07); *Weekly Petroleum Status Report*, Week Ending October 3, 1997, DOE/EIA-0208(97-40); and *Short-Term Energy Outlook*, DOE/EIA-0202 (97/3Q) and predecessor reports. All data through 1996 are considered final and are not subject to further revision.

**Table FE1. Average<sup>a</sup> Propane Supply and Price**  
(Million Barrels per Day Except Where Noted)

Category	Winter 1994-1995	Winter 1995-1996	Winter 1996-1997
Production	1.00	1.02	1.06
Imports	0.12	0.11	0.12
Stock Change	0.19	0.19	0.13
Total Propane Supply <sup>b</sup>	1.31	1.33	1.32
Residential Propane Prices (Cents per Gallon)	86.4	90.2	108.5

<sup>a</sup>Averages are calculated by using monthly data for the winter heating season months October through March.

<sup>b</sup>Total propane supply is equal to domestic production, imports, and stock change, as reported in various issues of the *Petroleum Supply Annual*, DOE/EIA-0304, Table 2. Total propane supply overstates product supplied due to the exclusion of exports and refinery inputs.

Sources: Energy Information Administration, *Petroleum Supply Annual*, 1996, DOE/EIA-0240(96), Volume 2, and predecessor reports; and *Petroleum Marketing Monthly*, June 1997, DOE/EIA-0380(97/06), Table 14, and predecessor reports.

Note: Totals may not equal sum of components due to independent rounding.

gallon by mid-December. Some of these factors were as follows: rising crude oil prices; colder-than-normal weather early in the season; heavy crop drying demand in the Midwest; and the mid-summer explosion at a Mexican gas plant that essentially halted that country's propane exports to the U.S.

The outlook for propane supply and prices during the 1997-1998 heating season appears to be significantly more favorable for consumers than that of the past winter. The factors that caused propane prices to spike last year are not expected to be repeated this year. Several of the major factors that drive this assessment include lower crude oil prices, higher U.S. and regional inventories, and a return to seasonal demand levels for both heating and for crop drying applications.

As of September 30, 1997 (beginning of the heating season), U.S. inventories of propane totaled 60.2 million barrels, 8.3 million barrels above the year earlier level and the highest pre-heating season since 1994 (Figure FE1). Furthermore, this level remains above the normal range for this time of year. Regionally, inventories were within or above their normal ranges for all the key propane supply/demand areas of the Nation. East Coast inventories stood at 4.6 million barrels as of September 30, 1997, a level slightly below the previous year's level but within the normal range for this month. Midwest inventories measured 27.5 million barrels as of the start of the heating season, a level well above the normal range for this month and 4.8 million barrels above the year ago level. Gulf Coast inventories began the heating season at about 26 million barrels, 4.4 million barrels above the same period last year and well within the normal range for a pre-heating season period.

Evaluating the accuracy of last year's projection of propane supplies, actual weather conditions during the 1996-1997 winter heating season more closely resembled the "Base Case" scenario<sup>1</sup> than the alternate scenarios that called for more

<sup>1</sup>Energy Information Administration, *Weekly Petroleum Status Report*, Week Ending November 1, 1996, DOE/EIA-0208(96-43), "Propane Market Assessment for Winter 1996-1997."

adverse temperatures. Temperatures (as measured by heating degree days) last winter averaged about 4 percent above normal throughout the United States. The "Base Case" scenario assumed normal winter temperatures and non-weather-related demand and supply factors remaining at typical historical levels, with primary stocks ending the heating season at approximately 21 million barrels. Although cold temperatures early in the heating season contributed to pull stocks down more sharply than the projected path in the "Base Case" scenario, milder temperatures beginning in January helped to push stocks above the expected path for the remainder of the heating season. By the end of March, stocks stood at 27.6 million barrels, 6.6 million barrels above the "Base Case" projection.

## Supply

Demand for propane is met by domestic production at gas processing plants and at refineries, inventory withdrawals, and net imports. Domestic production accounts for the largest share of supply, followed, in turn, by inventory withdrawals and imports. For instance, during the 1996-1997 winter heating season, domestic production accounted for more than 80 percent of the supply of propane over the period. Inventory withdrawals accounted for about 10 percent, while imports accounted for the remaining 9 percent of propane supply. Production and net imports do not vary seasonally like demand. These supply sources are relatively flat in comparison, being higher than consumption needs in the summer and lower in the winter. This results in stock builds during the summer months and stock draws during winter (Table FE1).

## Production Records Strong Growth During 1997

A unique feature of propane is that it is not produced for its own sake but is a by-product of two other processes, natural

gas processing and petroleum refining. The by-product nature of propane production means that the volume available from this source of supply will not directly reflect changes in price and demand in propane markets. Natural gas plant production of propane is primarily a function of extracting condensate, or the heavier liquids such as propane, from the natural gas stream in order to prevent the liquids from condensing and causing operation problems in natural gas pipelines. Thus, gas processing plant production is roughly inelastic over the short term. Refinery production of propane is primarily a function of refinery runs dictated by demand for the major products, such as motor gasoline and heating oil. Because of propane's by-production status, refinery production of propane is also inelastic in the short term.

More than 80 percent of propane demand during the 1996-1997 heating season was met by domestic production, recording its highest share since the 1991-1992 heating season. While domestic production over the past several years has typically accounted for about a three-fourths share of supply for heating demand, last year's increase of propane for heating fuel was more a function of the milder weather, which reduced the need for propane from other supply sources, such as from inventory withdrawals and imports. However, domestic production remained strong at both gas processing plants and at refineries. Gas processing plant production increases are fueled in part from strong natural gas demand, while increases in refinery production are primarily the result of the higher co-production of other refinery products, particularly motor gasoline.

Through July 1997, total domestic production of propane continued strong, with production at both gas plants and refineries averaging well above their 5-year average levels. During the first 7 months of 1997, production from gas plants averaged 531 thousand barrels per day, an increase of nearly 3 percent from the same period last year, while refinery production during this same period soared nearly 8 percent, and averaged 551 thousand barrels per day. High levels of refinery inputs through the spring and summer months, the result of meeting strong gasoline demand during the period, were a major contributing factor for the higher levels of propane production. Moreover, refinery production through July 1997, reversed a long term trend of gas plant supply dominance.

Primary inventory withdrawals<sup>2</sup> provide the second largest source of propane during the winter heating season. During the peak demand months of December, January and February, propane inventories supply over 20 percent of demand on average, compared to distillate, for which inventories supply 12 percent of demand during these same peak months. Inventories are built up during the spring and summer months, and typically peak by the end of September. Since 1990, peak inventory levels have ranged from a low of 51.6 million barrels in 1991, to a high of 61.4 million barrels in 1993. Last year,

inventories peaked at only 51.9 million barrels, the third lowest pre-heating season level in more than a quarter century.

Last winter's mild weather moderated propane's stock draw to 24.3 million barrels, the lowest since the winter of 1991/1992. Over the past 5 years, winter inventory withdrawals (October through March) averaged nearly 33 million barrels. Last winter, propane inventories accounted for less than 10 percent of propane supply, down from about 14 percent share a year earlier and the lowest share in 5 years. By the end of the heating season, propane inventories stood at 27.6 million barrels, their highest end of winter level since 1992.

Because of the mild winter and subsequent low stock draw, U.S. inventories began their 1997 seasonal build from a much higher base than in previous years. From April to September, 1997, U.S. stocks were built up by 32.7 million barrels, a level that was slightly above average compared with stock builds over the past 5 years. By the start of the heating season, U.S. inventories reached 60.2 million barrels, a level both above the average range of recent years and the 60 million barrel threshold some industry observers believe is needed to meet demand without significant disruption.

## Imports Lag 1996 Volumes

Imports provide the smallest component of U.S. propane supply. While small in volume, imports provide a crucial source of supply during periods when consumption rates exceed the rates of available supplies of propane from domestic production and inventories. Furthermore, imports provide an important source for incremental supplies during the stock building season that typically lasts from April through September. During the 1996-1997 heating season, imports totaled 122 thousand barrels per day, or about 9 percent of total propane supply.

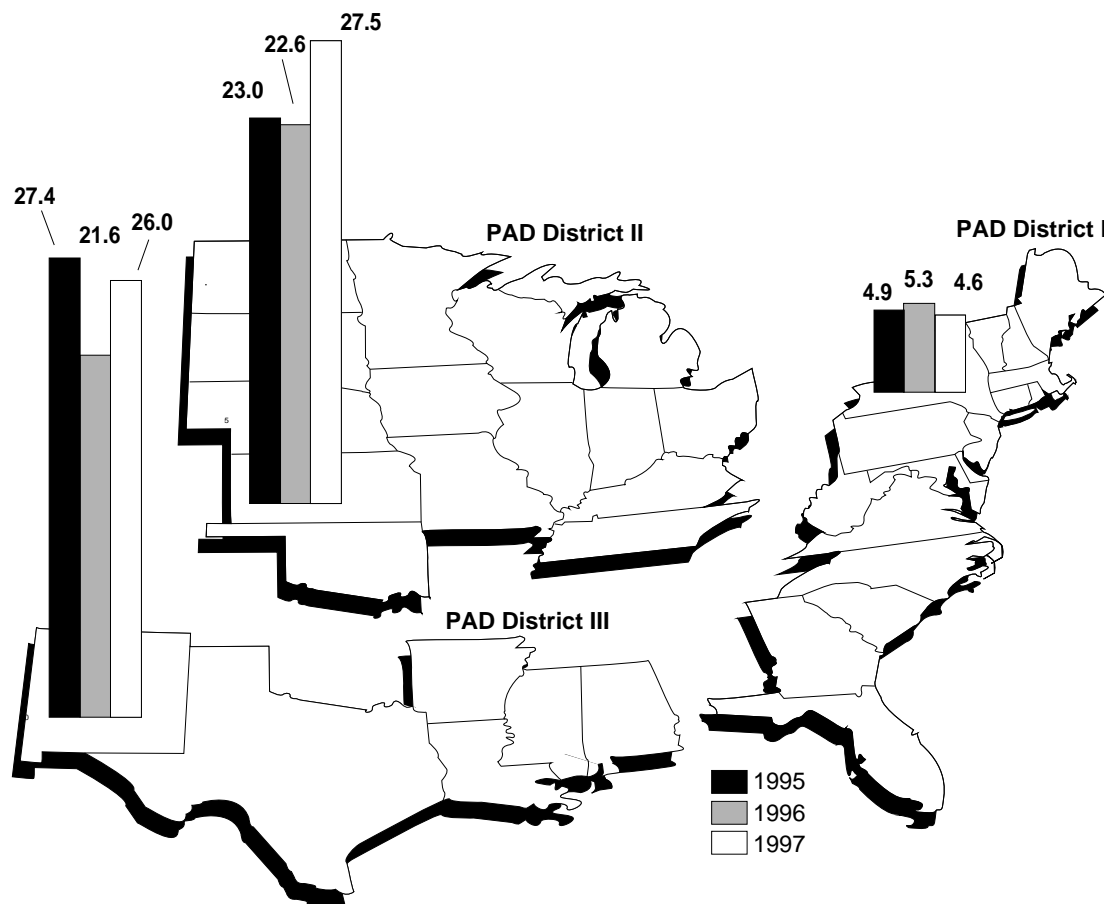
Imports of propane are primarily of two origins, by pipeline and rail car from Canada and by tanker from such countries as Algeria, Saudi Arabia, Venezuela, Norway, and the United Kingdom.<sup>3</sup> Canada is the largest exporter of propane to the United States, typically accounting for about two-thirds of all U.S. imports. Because Canada consumes only about half its supply of propane, the remainder is generally exported to the United States via pipeline and rail car into the upper Midwest and Northeast regions. However, when the northern regions of the United States are experiencing severe cold weather, Canada is usually suffering with the same weather. Thus, marginal increases in propane imports from Canada during such times may not be available.

Through July 1997, propane imports averaged 90 thousand barrels per day, down 20 percent from the same period last year. The 1997 decline was attributable to weaker space heating demand due to milder weather compared with 1996. Because imports represent a supplemental source of supply, any falloff

<sup>2</sup> "Inventory withdrawals" are the same as negative "Stock Change" as reported in the *Petroleum Supply Annual*, DOE/EIA-0340, Table 2.

<sup>3</sup> Propane imports by country of origin are derived from Form EIA-814, "Monthly Imports Report."

**Figure FE2. Propane Stocks (in Million Barrels) of Major Petroleum Administration for Defense (PAD) Districts, September 30, 1995-1997**



Sources: Energy Information Administration (EIA), *Petroleum Supply Annual 1996*, DOE/EIA-0340(96)/2, Volume 2, and predecessor reports; and Form EIA-807, "Propane Telephone Survey."

in demand will be reflected in lower imports. Although Canadian inventories of specification grade<sup>4</sup> propane soared to a near record 9.2 million barrels as of September 1, 1997, up by more than half from the same date last year, the volume of exports during 1997 has lagged far below prior year levels. Through July 1997, Canadian exports to the U.S. totaled about 65 thousand barrels per day, down 12 percent from the same period last year.

Non-Canadian imports are waterborne supplies mostly from countries in the Persian Gulf, North Africa, the North Sea, and South America. Most waterborne imports flow into the East Coast (PAD District I) and Gulf Coast (PAD District III) regions of the United States. Waterborne imports into the East Coast region are normally highest during the winter months when peak winter demand requires supplemental sources of supply. Conversely, waterborne imports into the Gulf Coast region are normally highest during the spring and summer months when primary stockholders are building their inventories for the next winter heating season. For the first seven months of 1997, non-Canadian imports totaled 26

thousand barrels per day, down almost 33 percent from the same period last year. Except for Venezuela, all countries that regularly export propane to the U.S. reported declines, particularly for Algeria and Mexico. The decline in imports from the North Sea and North Africa was the result of unfavorable spreads in spot prices between these regions and the U.S. Gulf Coast. The decline in imports from Mexico was a direct result of the explosion of Mexico's Cactus Gas Plant that essentially caused that country to halt all propane exports to the U.S.

## Inventories Rebuild to Normal Levels

By the start of the 1997-1998 heating season on October 1, U.S. and regional inventories were within or above their respective normal levels for all the major regions of the Nation. This inventory situation contrasts sharply with last year when U.S. and Gulf Coast inventories began the heating season at levels considerably below their normal ranges. Some of the events that caused low inventories last year are not likely to be repeated this year, which should provide for a more positive

<sup>4</sup> The National Energy Board of Canada reports propane inventories as "Specification" grade (pure propane) and "Mix" grade (propane mixed with ethane and/or butane).

outlook for propane supply during the 1997-1998 heating season.

East Coast (PAD District I) inventories were the exception last year, remaining at the upper limit of the normal range for most of the duration of the heating season. This trend did not continue during 1997 as inventories in the East Coast reached 4.6 million barrels as of September 30, the lowest level for this month since 1993 (Figure FE2). The East Coast, particularly the Northeast (PAD District 1X), is most susceptible to supply disruptions because of the limited production and pipeline capacities and reliance on waterborne imports for supplemental supplies. However, during the 1996-1997 heating season, these limitations did not come into play and inventories ended the heating season at their highest level in 6 years. Although East Coast inventories continued to decline past the end of the heating season, falling by nearly 0.3 million barrels by the end of May, a relatively strong summer stock build contributed to push inventories to a level well within the normal range by the start of the current year heating season.

Midwest (PAD District II) inventories likewise benefited from the mild winter, which left inventories at their highest March level in five years. From the relatively high base of 10.6 million barrels, coupled with an above average stock build, Midwest inventories reached 27.5 million barrels by September 30, 1997, a level well above the normal range for this time of year. Nearly three-fourths of the Midwest's supply of propane is derived from domestic production, with imports from Canada and inter-regional movements accounting for the remainder. The Midwest region contains abundant storage capacity and is served by several major propane pipelines, both from the U.S. Gulf Coast and from Canada. The Midwest's high concentration of heating fuel use of propane, combined with the prevalence of severe weather, particularly in the upper Plains States, make the region susceptible to weather-driven demand surges.

Despite wide swings in inventories during the previous heating season, the Gulf Coast region finished the winter well within the normal range at 12.8 million barrels. Since then, Gulf Coast inventories were built up to nearly 26 million barrels by the end of September 1997. In contrast to the East Coast and Midwest regions, the Gulf Coast produces in excess of the region's demand for propane. Consequently about one-sixth of the region's production of propane is transported to other regions of the United States. Because of the Gulf Coast's proximity to the major propane supply sources and the lack of severe weather in the region, supply disruptions are uncommon. This region not only serves as the major hub for the heating fuels markets in the Midwest and East Coast regions, but also for the petrochemical industry concentrated along the Louisiana and Texas Gulf coasts.

## Demand

The primary factors that affect propane demand in the United States are propane prices, crude oil and natural gas prices,

macroeconomic growth, and weather. Propane is consumed by a wide variety of end use markets, including residential/commercial, industrial, petrochemical, agricultural, transportation, and utility. Because of the influence of the highly weather-dependent residential sector, total propane demand generally mirrors the same seasonal patterns as the residential sector, rising during the winter months but falling during the spring and summer.

## U.S. Propane Demand Remains Flat

U.S. demand for propane averaged about 1.1 million barrels per day during 1996, an increase of 3.6 percent from 1995. This compares with annual growth rates of 1.3 percent during 1995, and 7.6 percent during 1994. However, a comparison of propane demand for the first seven months of 1997, compared with the same period during 1996, shows demand nearly flat at about 1.1 million barrels per day. While warmer-than-normal weather during the first quarter of 1997 helped dampen residential heating demand, higher petrochemical demand for propane as a feedstock during the first seven months of 1997 partially offset the decline in residential sector demand. Propane demand for the 1997-1998 heating season is expected to reflect moderate growth in the U.S. economy, and weather following historical norms that would cause the coming winter to be colder than last winter.

Since residential sector demand for propane is highly influenced by weather, large variations in sector demand occur mostly in the Midwest (PAD District II) and Northeast (PAD District 1X) regions. However, one of the best methods for minimizing large variations in demand for residential consumers rests with residential consumer's ability to maximize their storage capacities. Most propane retailers offer summer fill-up programs that are proven to be effective in minimizing the potential for propane market disruptions. Moreover, retail propane prices typically are lower during the summer months when these programs are in effect.

Although winter weather does not have the same influence on the petrochemical sector as it does on the residential heating sector, the petrochemical sector can affect the supply/demand balance for propane. Since this sector is price-sensitive, petrochemical companies will pull back on propane use when prices increase, particularly during critical demand periods when prices tend to spike. Thus, the petrochemical sector tends to help moderate tight supply/demand balances. This was evident last fall when propane prices rose rapidly during this period and petrochemical companies reduced their propane feedstock demand to their lowest monthly levels since the early 1990's.

Continued economic growth has kept petrochemical feedstock demand for propane relatively strong over the past several years. This trend continued during 1997, as petrochemical companies increased their propane feedstock volumes about 4 percent (to an average of 324 thousand barrels per day) through August 1997, compared with the same period last year.



However, as propane prices begin to rise during the late fall and early winter period, petrochemical feedstock requirements for propane are expected to decline as they traditionally do during winter heating season.

Ordinarily, agricultural sector demand for propane does not impact regional propane markets except when the confluence of unusually high and late demand for propane for crop drying and colder-than-normal weather in the upper Midwest cause greater-than-normal stock draws. The Economic Research Service (ERS) of the U.S. Department of Agriculture forecasts the 1997 corn harvest at 9.3 million bushels, relatively unchanged from last year's near record level. However, despite its size, last year's corn harvest did not cause any adverse impact on regional propane supplies. The ERS reported that following a very promising start to the season, crop conditions generally deteriorated from early July through the middle of August. Late summer rains helped some dry areas, but they were spotty and too late to make much difference. Despite reduced crop expectations, the ERS reported that the corn crop is still forecast to be the fourth largest ever. While harvesting in the major corn growing areas started in the latter half of September, final crop forecasts have the potential to move either way as the harvest progresses. Although crop drying demand may be high this year, depending on moisture content and weather, it is not expected to significantly impact inventories in these regions.

## Prices

Propane prices at all levels of the distribution chain are subject to a number of influences, some of which are common to all petroleum products, and some of which are unique to propane markets. Factors affecting the spot markets also eventually travel down the system to affect the other distribution levels. The primary determinant of spot propane prices, as with most commodities, is the balance of demand and available supply, often on a regional basis. Additionally, propane prices are influenced by crude oil and natural gas prices, competition with other commodities used as fuel or feedstock, and intangible factors such as uncertainty about future supply or demand, causing marketers to bid up prices as they rush to buy available supplies.

In the United States, the benchmark prices for propane throughout the industry are the daily spot market quotations at Mont Belvieu, Texas, and Conway, Kansas, and the NYMEX futures prices, also for delivery at Mont Belvieu. Mont Belvieu is a storage and distribution hub for the Gulf Coast area, while Conway serves the same function in the mid-continent region. Both hubs are connected to the pipeline networks serving residential and commercial markets throughout the Midwest and Eastern United States.

The fall 1996 period was the fourth time in the past decade in which propane prices rose rapidly over a very short period of time. Spot propane prices at Mont Belvieu and Conway rose together from about 36 cents per gallon at the beginning of August to 50 cents per gallon by the end of September, their highest pre-heating season level since 1990. They continued to rise through October, and in November, Conway prices soared, peaking at 107.5 cents per gallon by mid-December. Retail prices downstream from Conway and Mont Belvieu lagged behind changes in spot markets with significant regional differences, but all propane prices returned to more seasonal levels by March 1997.

## Spot Prices Remain Stable

Following the end of the heating season, spot propane prices at both major trading hubs remained markedly stable during the April through September stock-building season. Between March and late July, 1997, spot prices at both hubs traded in a relatively narrow 33-45 cents per gallon range.<sup>5</sup> Beginning in late July and early August, spot prices broke out of this range and began to rise slowly in anticipation of the approaching winter heating season. By the end of September, spot prices were trading at about 40 cents per gallon at Mont Belvieu and about 39 cents per gallon at Conway.

West Texas Intermediate (WTI) crude oil prices have trended downward for most of 1997, falling from a yearly high of \$24 per barrel by the end of January, to about \$21 per barrel by the end of September. Unusually mild winter weather and stable crude oil inventories combined to depress crude oil prices for most of the year. Spot natural gas prices, the other major source of propane, fell to a yearly low by the end of February in response to mild weather, but colder-than-normal weather in April and May lifted spot prices and prices continued to drift upward as the heating season approached.

## Assessment Scenarios

Given the status of propane supply, demand, and price levels at the beginning of heating season, the expected conditions over the course of the season can be estimated on the basis of assumptions about the variables that affect the propane markets. By varying those assumptions, we learn how the market will behave over a wide range of conditions that invariably are subject to uncertainty. By design, some of the weather assumptions depicted in the "Propane Market Assessment" differ from those used in the EIA publication, *Short-Term Energy Outlook* (STEO).<sup>6</sup> This was done to show propane market behavior based on weather patterns that can adversely affect propane markets.

For the purpose of this assessment, Scenario 1 (base case) assumes winter temperatures (as measured by heating

<sup>5</sup> Spot prices quoted are from Reuters Information Services, Inc.

<sup>6</sup> Energy Information Administration, *Short-Term Energy Outlook*, DOE/EIA-0202(97/4Q), p.4.

# El Niño Returns

Predictions concerning the potential effects of the return of El Niño are once again making headlines this year. El Niño, as described by the National Oceanic and Atmospheric Administration (NOAA), is caused by strong warm episode conditions in the tropical regions of the Pacific Ocean. During warm (El Niño/Southern Oscillation) episodes, abnormal patterns of temperature and precipitation develop in many regions of the globe. These conditions result from changes in the distribution of tropical rainfall and the effects these changes have on the position and intensity of jet streams and storms outside of the tropics in both the Northern and Southern Hemispheres.

The effects of past El Niños on U.S. weather patterns have been devastating over the years. During the winter of 1982-1983, the effects of El Niño caused more than \$2 billion in damage from storms and flooding in the Pacific Coast, Rocky Mountain and Gulf Coast States, while saving \$500 million in fuel bills with the East Coast's warmest winter in 25 years. During the winter of 1976-1977, El Niño brought drought to California and one of the century's coldest winters to the Midwest and East. Some regions of the world are already experiencing the effects of El Niño. In the United States, El Niño is believed to have influenced the wetter and cooler-than-normal conditions over the northern Rockies and sections of the Great Plains, as well as the drier-than-normal conditions in the mid-Atlantic States.

The outlook for El Niño's impact on winter weather, according to the latest predictions from NOAA, calls for wetter-than-normal conditions in the southern United States, with somewhat drier conditions in the northern High Plains and in sections of the Midwest. Temperatures are expected to be warmer-than-normal in the northern half of the United States and along the California coast, and slightly cooler-than-normal along the Gulf Coast.

Since these predictions could adversely affect winter weather, and ultimately propane inventories and prices, an attempt was made to incorporate these predictions, or the effects of El Niño, into the Propane Assessment. One possibility being forecast is for a warmer-than-normal winter in the Midwest, which is the Nation's major residential propane consuming area. Thus, an alternative warm winter scenario was explored, where the weather is moderately warmer (10 percent fewer heating degree-days) throughout the heating season for the Nation. The warmer temperatures would result in lower propane demand and lower prices than predicted in the Base Case. For example, the January peak price would be about 4 cents per gallon lower, and the average price for the January through March Winter season would be about 5 cents lower than the Base Case. The lower demand and prices could result in the average Midwest consumer paying \$73 less for propane than in a normal winter.

degree-days)<sup>7</sup> being equal to the historical (1961-1990) average, and all other non-weather related demand and supply factors behaving in keeping with typical historical patterns. Because of the importance of weather and the uncertainties surrounding this variable, two alternative scenarios were considered. Scenario 2 (Uniformly Colder) assumes uniformly colder temperatures (10 percent more heating degree-days) for the entire October-through-March heating season. Scenario 3 (Concentrated Cold) assumes a concentration of extreme winter temperatures (17 percent more heating degree-days) during the second half (January through March) of the heating season. These scenarios can be used to show the effects of cold weather on inventories and residential prices.

starting the heating season at a level well within the normal range for this time of year. Assuming average temperatures and typical crop drying demand, stocks are projected to gradually decline over the course of the season, reaching a level of 25.7 million barrels by the end of March 1998<sup>8</sup> (Figure FE3); this level is about 2 million barrels below last year's level. Under this projection, the total propane stockdraw over the heating season would be about 32.8 million barrels, near the average of the last 5 years. Average residential prices would be expected to increase seasonally from about 85 cents per gallon in October to a winter peak of 102 cents per gallon in January. Prices would then gradually fall and end the season at 94 cents per gallon (Figure FE4).

## Base Case

On the basis of current inventory levels and projected supply and demand, the expectation for the 1997-1998 winter heating season is for adequate supplies and moderate prices, given normal weather and the absence of any major supply problems. This expectation is based on U.S. inventories of propane

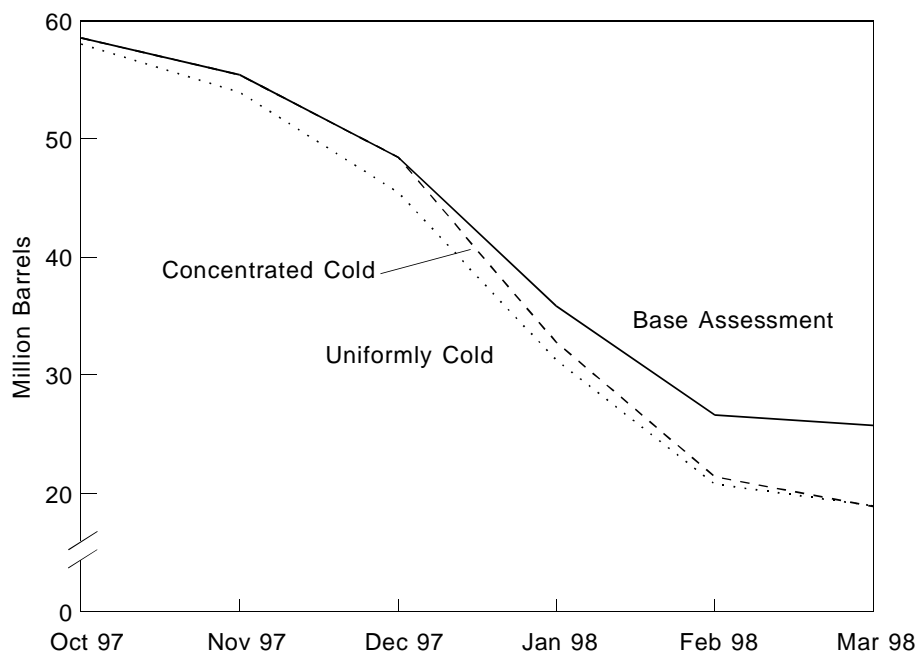
<sup>7</sup> Heating degree-days are the number of degrees per day that the daily average temperature falls below 65 degrees Fahrenheit.

<sup>8</sup> To evaluate the scenarios, the Propane Market Model (DOE/EIA-M055) was used to forecast the demand (product supplied) and residential price of propane. The model uses historical monthly data series covering the July 1990 through July 1997 time period, and also uses EIA forecasts of imported crude oil prices for its projections. The model consists of a two-equation system simultaneously estimated by least squares and with a provision for the calculation of end-of-month stock levels.

## Uniformly Colder

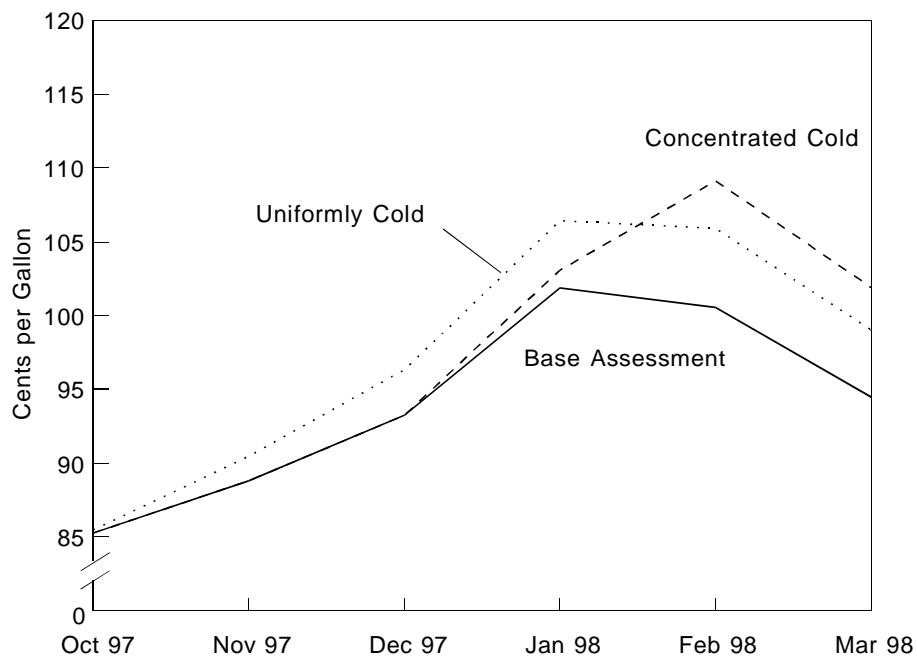
If, instead of average temperatures, the weather is moderately colder (10 percent more heating degree-days) throughout the heating season for the Nation, propane supplies and prices would be significantly affected. Inventories would decline at a faster rate over the entire heating season, and would end

**Figure FE3. Effect of Alternative Weather Scenarios on Propane Stock Assessment**



Sources: : Estimates derived from the Propane Market Model (DOE/EIA-M055).

**Figure FE4. Effect of Alternative Weather Scenarios on Residential Propane Price Assessment**



Sources: Estimates derived from the Propane Market Model (DOE/EIA-M055).

March at about 19 million barrels, about 7 million barrels lower than the normal weather scenario. Residential propane prices would rise to a maximum of 106 cents per gallon in January, 4 cents higher than in the base case, and decline to 99 cents per gallon in March, 5 cents over the base case. The higher demand and prices could result in the midwest consumer paying \$77 more for propane than in a normal winter.

### **Concentrated Cold**

Under a different severe weather scenario, where the cold weather is concentrated in a 3-month period, rather than spread evenly throughout the heating season, the same number of heating degree days as the uniformly cold scenario is applied entirely in the months of January through March (representing

a 17-percent increase for those months). U.S. propane stocks would be projected to end the heating season at 19 million barrels, due to the shorter period of time available for the incremental volumes of production and imports to respond to the higher demand during the peak winter months. The impact of this scenario on residential prices would be significant. With colder weather concentrated in the second half of the season, the projected result would be to reach a higher maximum price in February of 109 cents per gallon, declining to a season ending price of 102 cents per gallon, amounting to 7 cents over the base case.

## Feature Article

- *A Contrast Between  
Distillate Fuel Oil Markets in  
Autumn 1996 and 1997*

# A Contrast Between Distillate Fuel Oil Markets in Autumn 1996 and 1997<sup>1</sup>

As the winter season approaches, distillate markets this year provide a series of stark contrasts to distillate markets last year (Table FE 1). A year ago, distillate markets were on a precipice. Record-low stocks created fears of possible supply disruptions and soaring prices for the core winter months. These fears were not realized, however, as warm weather, record-high refinery output and smooth logistics, kept winter distillate markets calm. Last year's autumn stock levels did not represent a fundamental change in distillate markets. The factors that led last year to such low stock levels have not been repeated this year. Hence, stocks are higher and markets less vulnerable (but not *invulnerable*) to price spikes.

## Stocks at end of last winter set stage

The winter of 1995-96 ended with a significant cold snap in the northeastern United States. Heating degree-days<sup>2</sup> in March 1996 were 15 percent higher [higher when colder] than normal in the Mid-Atlantic States and 10 percent higher than normal in the New England States. Hence, at a time when refiners have generally turned their attention to gasoline, they instead needed to pump out

additional heating oil. Even the high refinery output could only keep pace with the unusual draw on supply. By the end of March 1996, and again at the end of April, inventories of distillate fuel oil were about 90 million barrels, a record low.

In contrast, the heating season of 1996-97 ended calmly. Weather in the Northeast had generally been warmer than normal in the depth of winter, and was close to normal as spring broke through. The end-season panic of the previous year was not repeated, and stocks reached their annual low point (April) within the historical range.

## Markets calmer, this winter's prevailing prices lower

With crude oil prices at their highest levels since the Gulf War, oil markets last year were providing no comfort to consumers. Prices in 1996 seemed only to climb, in spite of market expectations to the contrary<sup>3</sup>. In September 1996, for instance, the precariously poised world crude oil market touched \$25 per barrel after a

**Table FE 1. Distillate Markets as Winter Approaches**  
(Contrast Autumn 1996 and Autumn 1997)

1996	Factor	1997
Record low	Previous end-winter stocks	In the historical range
High	Prevailing prices	\$5/barrel lower (WTI)
Falling prices	Price expectations (overall)	Stable prices
Falling prices	Price expectations (heating oil)	Seasonally higher prices
Strong growth	Off-season demand	Weaker growth
Europe out-bidding US	World competition for heating oil	Europe's markets calm
Untested; Trainor refinery out	Autumn refinery output	Record levels proven
Record low	End-September inventories	High end of range

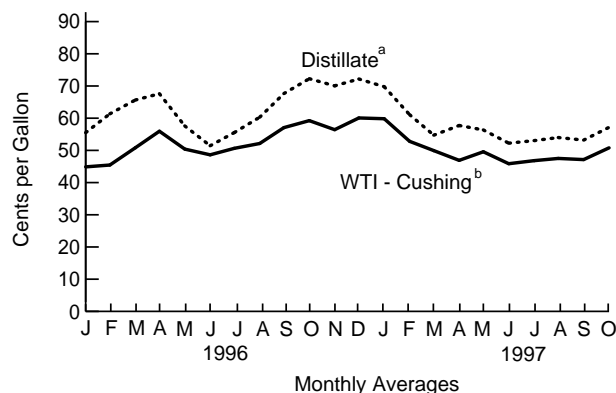
<sup>1</sup>Cheryl J. Trench, an independent petroleum analyst, contributed to this article. Unless otherwise referenced, data in this article are taken from the following Energy Information Administration sources: *Weekly Petroleum Status Report*, DOE/EIA-0208; *Petroleum Supply Monthly*, DOE/EIA-0109; *Petroleum Supply Annual*, DOE/EIA-0340; *Petroleum Marketing Monthly*, DOE/EIA-0380; *Short-Term Energy Outlook*, DOE/EIA-0202; and Short-Term Integrated Forecasting System.

<sup>2</sup>Heating degree-days (HDD) are a measure of how cold a location was over a period of time relative to a base temperature, 65 degrees F.

political stand-off in the Middle East. By early October, barrels were running consistently at the \$25 level.

By September 1997, crude oil prices had declined more than \$5 per barrel since their peak in late 1996 (Figure FE 1). This 12-cent-per-gallon decrease has been reflected throughout product price markets. Heating oil prices, for instance, were about 67 cents per gallon on the New York Harbor spot market last September, and ran about 53 cents per gallon this September.

**Figure FE 1. Spot Prices for Distillate and Crude Oil by Month, January 1996 - October 1997**



<sup>a</sup> Distillate fuel oil as measured by No.2 Heating Oil delivered at New York Harbor.

<sup>b</sup> One of the the bellwether crude oils, West Texas Intermediate delivered at Cushing, OK.

Source: Table 13, *Weekly Petroleum Status Report*.

## Overall outlook suggests stable, not falling prices

The 1996 oil market suffered a variety of anomalies, including the persistent view that prices would be falling in the next few months. With new supply just over the horizon, crude oil prices looked poised for a fall. But with stocks low and additions to supply consistently disappointing, prices remained high for prompt delivery. The tenacious contradiction between the near-term view (available supplies were limited) and the longer-term view (the market would be oversupplied in the months ahead) was a prime mover throughout 1996. Industry response was rational from an economic standpoint, but confounded policy makers and other market observers. Stocks remained low, but any purchase for current consumption carried a high price premium.

It was not until the supply from Iraq under the United Nations limited oil for food sale finally came into the market, combined with easing of delays in bringing some other production supplies on (North Sea, for example), that the market began to correct itself. Prices for the crude oil contract on the New York Mercantile Exchange, for instance, have recently reflected a stable market view, showing almost no difference between the price for near term supplies and the price for volumes three and six months from now.

## Price expectations for heating oil reflect a normal seasonal increase

In the normal course of events, heating oil inventories are built up in the off-season with the expectation that they can be sold during the winter at the higher seasonal prices. At a minimum, a company making a decision to store oil will want to cover the cost of purchase, the cost of money for the purchase, and the storage cost between the time of the purchase and the sale.

Between 1991 and 1994, the seasonal increase reflected in futures contracts as the winter approached was 1 cent per gallon per month: November was about 1 cent higher than October, December 1 cent higher than November. The December-January price increase was shallower. Prices generally peaked in January and reflected end-of-season declines thereafter. Prices in 1995 fell away from the old pattern, offering less than 0.5 cents per gallon for each month's increase, about the minimum. At 0.5 cents per month, the seasonal increase would remunerate the cost of money, but would not pay for the cost of storage, which provided a mild disincentive for holding prior-year levels of inventories.

Autumn 1996 prices, however, marked a significant departure from the norm. Because of the unusual market situation, futures prices reflected a decrease as the heating season approached. A firm making a decision to store was therefore looking at the likelihood of losing money, not making it, on its inventories. This economic disincentive to store oil was powerful. While some firms still chose to store oil, many could not afford to take the risk.

In 1997, the seasonal increase reflected in futures contracts returned to the old 1 cent per month level. Furthermore, the autumn stockbuilds proceeded comfortably. The return to the old norms is a clear indication that the market in 1996 did not reflect a sea change in the distillate markets. Even a preference for the lowest reasonable operating inventories, for instance, does not deter a seasonal inventory increase when the stockbuild is supported by market economics.<sup>4</sup>

## More modest demand increases in 1997 have reduced supply pressure

During the second and third quarters of 1996, when distillate stocks would normally have been building, distillate demand was instead absorbing all available supplies. In spite of high refinery output levels, therefore, stockbuilds fell away from the historical pace. Demand in the first nine months of 1996, for instance, was about 4 percent above the 1995 level. In contrast, demand in the first nine months of 1997 increased about 1.5 percent over year-ago rates. A growth of approximately 4 percent per year for two years in a row would have been most unusual.

Demand increases, however, deserve a closer look (Figure FE 2.) The low sulfur portion of the distillate barrel, the portion used for on-highway transportation, and in particular trucking, is expected

<sup>3</sup> as reflected in futures markets.

<sup>4</sup> EIA report on *Petroleum 1996: Issues and Trends*, DOE/EIA-0615 (see Chapter 5, 'Petroleum Stocks: Causes and Effects of Lower Inventories,' especially page 88)

to continue to increase in line with the economy. For example, the Short-Term Energy Model uses a broad measure of economic activity, the Industrial Production Index, as a key variable in the distillate demand equation. According to EIA<sup>5</sup>, on-highway transportation accounted for about 50 percent of distillate use nationwide in 1996. Thus, a strong economy is rapidly evident in distillate demand data.

In contrast, the high sulfur portion of the barrel supplies heat and hot water to homes and commercial establishments, and fuels farm and industrial equipment. The use of distillate oil for heat and hot water accounts for approximately 20 percent of distillate use nationwide on an annual basis. By far the biggest users of distillate oil for heat and hot water are homes and commercial establishments in the Northeast (approximately 68 percent of the U.S. total in 1996) and Midwest (about 14 percent). This heating oil heats a relatively stable stock of housing units from year to year. Seasonal changes in heating oil consumption therefore reflect weather variations more than changes in the numbers of customers or the consumption characteristics of oil-heated houses.

<sup>5</sup>EIA report *Fuel Oil and Kerosene Sales 1996*, DOE/EIA-0535(96).

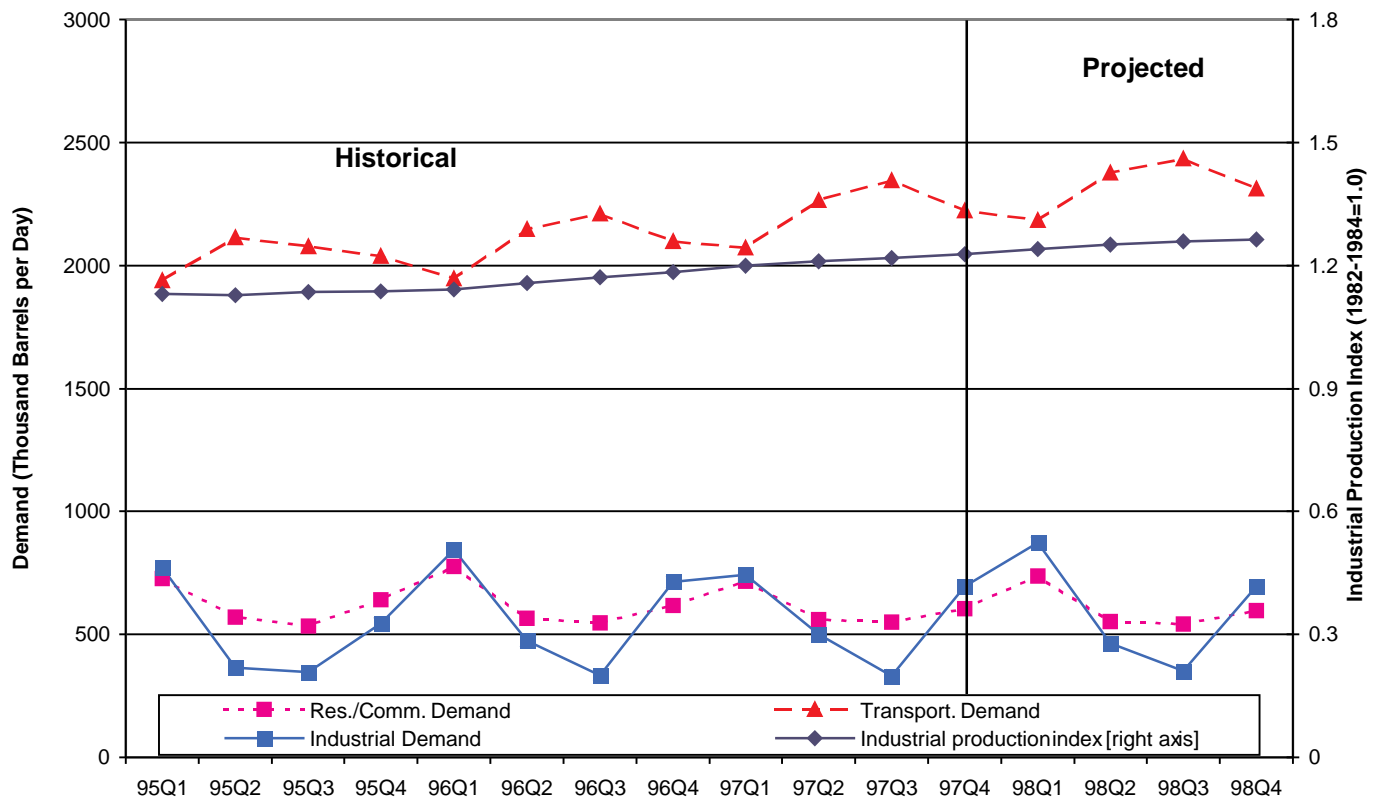
<sup>6</sup>An address by EIA Administrator Jay E. Hakes on the *Fall 1996 Heating Fuel Assessment* before the Winter Fuels Conference, November 7, 1996.

## Europe's markets also calmer this year

Competition among world consumers for distillate supply reflects another contrast between autumn 1996 and the current situation. In the autumn of 1996, Europe was shifting to ultra-low sulfur diesel, similar to that required in the United States since late 1993. While Europe's refining industry ramped up to meet the new requirement, its heating oil buyers were fighting for supply. Consumer stocks, a much more critical part of supply in Europe (especially Germany) than in the United States, were historically low. Also unlike the United States, where consumers have relatively small tanks that are filled as many as 5 times per season on a schedule dictated by degree-day calculations, consumer tanks in Germany with capacities up to 1,000 gallons are filled just once a year.

When Europe's consumers needed their winter supplies, the price signals were clear (Figure FE 3). Rotterdam prices rose well above those in New York Harbor or the U.S. Gulf Coast, beckoning supply. In September and October 1996, markets in Northwest Europe were bidding up to 7 cents more per gallon for heating oil than U.S. markets were willing to pay, more than enough to cover the shipping and related costs. As a result, supplies went to Europe<sup>6</sup>.

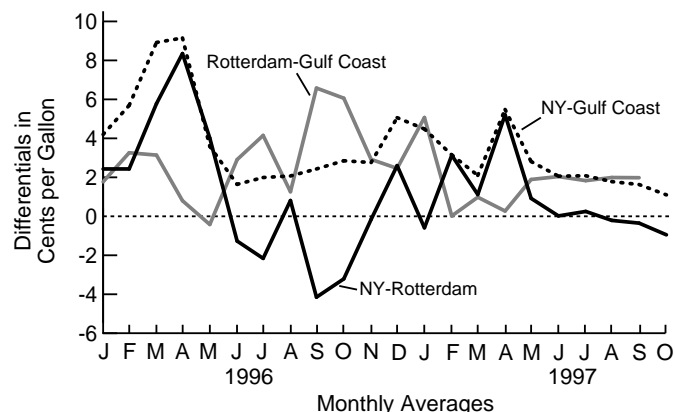
**Figure FE 2. Distillate Demand and Industrial Production, First Quarter 1995 - Fourth Quarter 1998**





In contrast, Europe's markets this year are calm. Differentials have been running a few cents per gallon in favor of Europe, not enough to cause a U.S.-to-Europe flow.

**Figure FE 3. Distillate Spot Price Differentials in the North Atlantic Basin by Month, January 1996 - October 1997**



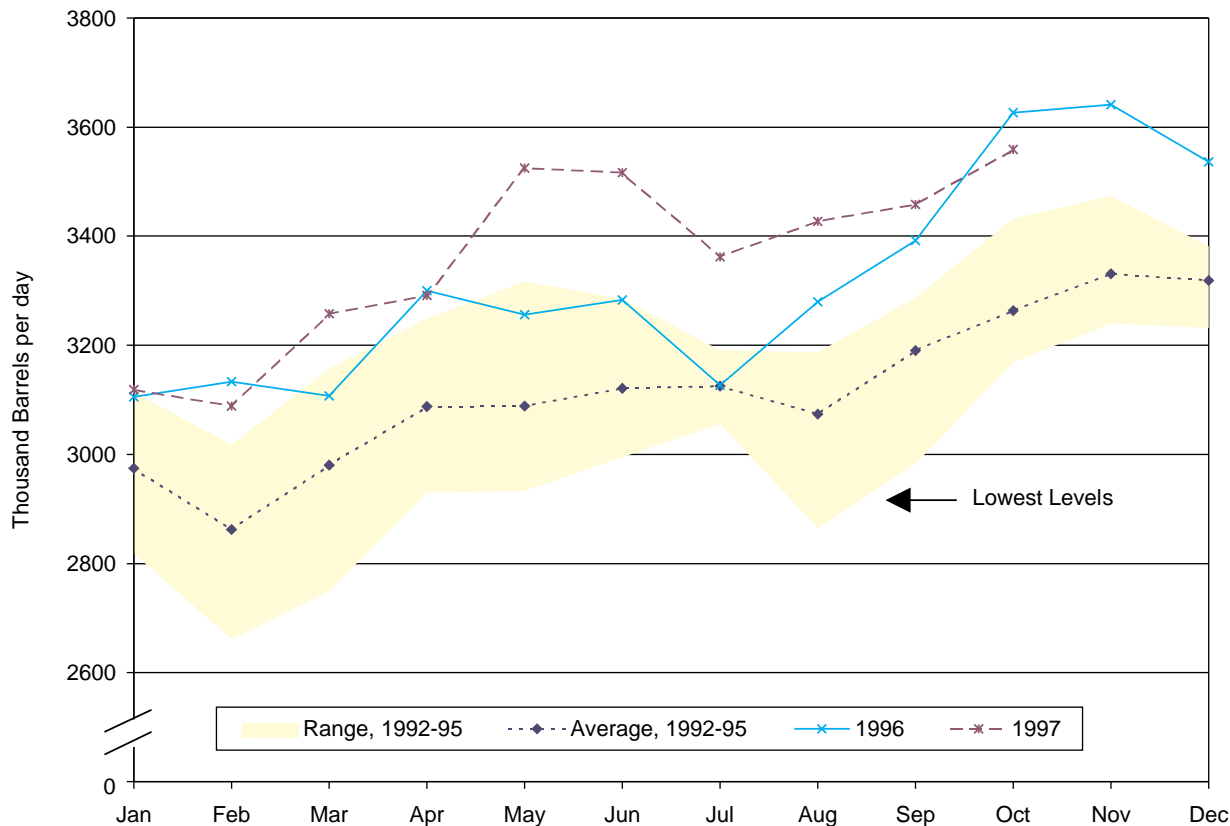
Source: Calculated from Table 13. *Weekly Petroleum Status Report*.

## Refinery output levels reached new heights last year

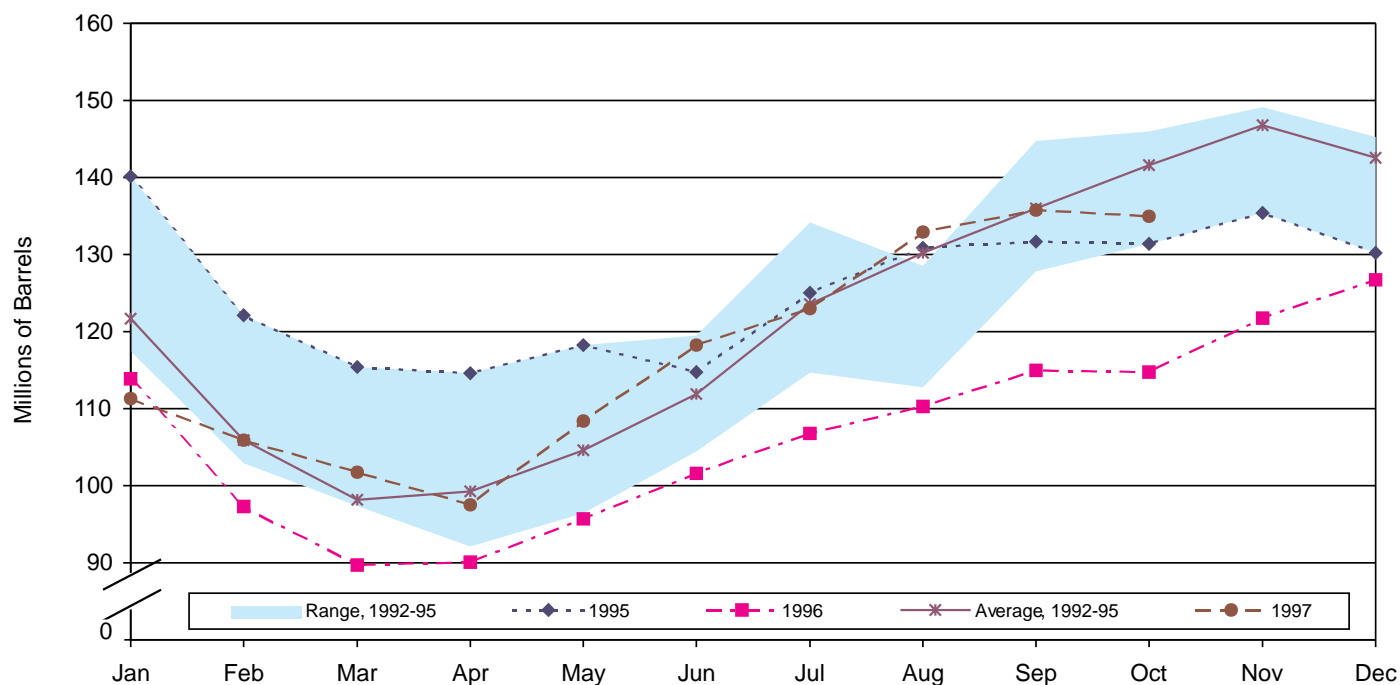
Among the positive developments during autumn 1996 was refinery output. The high distillate prices encouraged refineries to make distillate in ever-higher quantities. Both the volume and the yield relative to crude oil were at record levels. For example, where autumn output has generally been equal to about 24 percent of crude oil inputs, or 3.4 million barrels per day, in autumn 1996 distillate output from U.S. refineries averaged more than 25 percent of crude oil inputs, topping 3.6 million barrels per day.

Interestingly, however, refinery output has been unusually high for the 1997 autumn period (Figure FE 4). Refineries are running at counterseasonally high utilization rates, until recently well above 95 percent. As a consequence, recent distillate output has also reached historically high levels, as much as 3.7 million barrels per day, a level that would have seemed exceedingly unlikely in the absence of evidence from last year. Also significant, one of the major East Coast refineries (Tosco's Trainor), which was not operating last year, is now back in operation. Hence, last year's refinery output provided new assurance of the market's capability in the event of a demand spike, assurance that has been confirmed by experience in the fall of 1997.

**Figure FE 4. Distillate Output from U.S. Refineries by Month, January 1992 - October 1997**



**Figure FE 5. Distillate Stocks by Month, January 1992 - October 1997**



Note: September 1997 is preliminary.

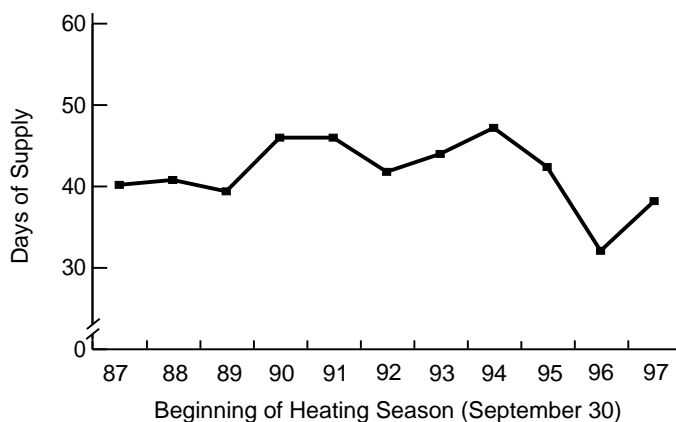
## End-September inventories at high end of historical range

The factors described above -- these contrasts between the autumn of 1996 and 1997 -- get their proof in the 1997 inventory levels (Figure FE 5.) In 1996, end-September inventories were about 115 million barrels, a record low. In contrast, inventories at the end of September 1997 were at the high end of the range of the last few years.

Although total inventories are comfortable, they have not returned to the early 1990's level of "forward demand cover." ("Forward demand cover" is a measure of stocks relative to demand. It is calculated for this purpose as the stock level at the end of one month divided by the daily rate of consumption, or expected consumption, in the following month. It is expressed as "days of supply" (Figure FE 6). Forward demand cover for the distillate pool of both high and low sulfur product stood at about 38 days at the end of September 1997, a big increase above the 1996 level of 32, but not back to the average of 44 days of 1991-95. An essential point when assessing the days of supply is that seasonal inventories are built to meet winter heating oil demand. As noted above, demand for heating oil varies because of weather, but does not have an underlying growth trend. The days of supply

calculation for heating oil alone would show a more comfortable result this year. (While the separation of high versus low sulfur distillate allows a closer comparison, these data have only been available since late 1993.)

**Figure FE 6. Distillate Stocks in Days of Supply at Beginning of Heating Season, 1987-1997**



Source: Calculated from Table 13, *Petroleum Supply Monthly*.

## Vulnerabilities Still Remain

With inventories at comfortable levels and with price signals showing the traditional seasonal increase (and hence, no barrier to storage), the outlook for distillate markets during the 1997-98 heating season provides a welcome contrast to the view a year ago. In the event of an unforeseen event, however, prices could still spike, either because of a surge in demand or an unforeseen problem with supply. Even a price spike, however, is likely to be shallower and shorter this year than it would have been last year.

While distillate markets and market signals are comfortable, gasoline markets remain tight. Thus, a demand spike in the distillate market would likely elicit an output increase from refiners. Such an increase, however, would come at the expense of gasoline supply. Thus, a cold first quarter could lay the groundwork for springtime gasoline price run-ups<sup>7</sup>.

One area of uncertainty in any winter assessment is weather, and this year's El Niño event has brought the winter weather outlook

to the front page. According to many experts, an El Niño event that follows the pattern of 1982-83, while having a potentially devastating impact on the West Coast, could lead to a mild winter in the Midwest and Northeast. The mild winter of course would reduce demand, and would also reduce the likelihood of weather-related logistics problems such as frozen rivers and ports<sup>8</sup>.

Perhaps the largest shadow over the oil market currently is Iraq. Iraq is exporting limited volumes of oil under the UN's humanitarian aid program. The program was scheduled to end on December 4, 1997. The shadow of uncertainty relating to Iraq was removed for the near term when the UN extended the program for another six months. Additionally, the Organization of Petroleum Exporting Countries (OPEC) voted at its late November meeting to raise its self-imposed export ceiling by approximately 10 percent, further easing the global oil supply/demand balance.

<sup>7</sup>EIA report on *Petroleum 1996: Issues and Trends*, DOE/EIA-0615 (see Chapter 2, 'Spring '96 Gasoline Price Runup: An Example of Petroleum Market Dynamics')

<sup>8</sup>On-going developments and forecasts of El Niño are available at the following WEB site: <http://www.elnino.noaa.gov>

## Highlights



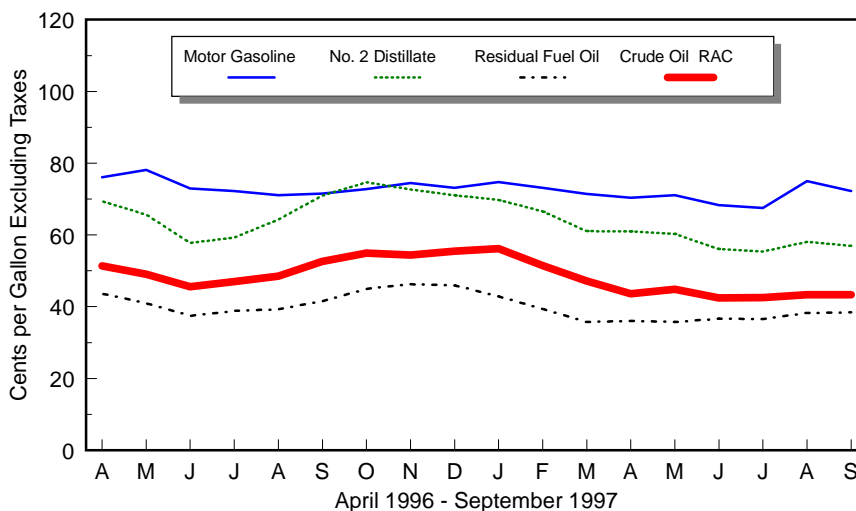
# Highlights

In response to plentiful stocks and ample wellhead production, international crude oil prices remained steady through most of September. However, a number of events caused prices to rise during the final week of the month. Attacks by Turkey and Iran on insurgent groups in Iraq lead to a perception of instability in the region and drove crude oil prices higher. In developments related to the U.N./Iraq "oil-for-food" plan, on September 12, the United Nations passed Resolution 1129 which permitted a change in the terms of the most recent installment of the program. Under the new resolution, the sales periods were altered to 120 and 60 days, respectively, with a revenue cap of U.S. \$1 billion for each period. And while September was the first full month since last spring in which Iraq exported crude oil, concerns about the integrity of the main pipeline carrying product out of the country raised questions about Iraq's ability to deliver the maximum allowable amount of crude oil to international markets. Other events, including an explosion on Colombia's Cano Limon pipeline set off by guerrilla forces and a short-lived strike by oil workers in Kuwait late in the month, also fostered rising crude oil prices. A strike by Norwegian oil workers continued throughout the month, but with little effect on actual oil production until the end of the month when the Yme field was forced to shut down.

During September, prices for petroleum products in the United States reflected a mixture of factors including rising stock levels for the major products, the return of U.S. and international refining facilities from maintenance

status, seasonal transition away from gasoline, and international political events. Preliminary data indicate U.S. stock levels of gasoline and distillates grew significantly during September, with stocks of gasoline and total distillate growing approximately 5.7 percent and 4.5 percent, respectively. Crude oil stocks posted only a marginal increase. After a spate of refinery maintenance in the United States and abroad during the past few months, several of the affected facilities came back online during September, easing concern about the potential effects on inventories of finished products. U.S. refinery utilization remained very high, hovering in the 99-percent range throughout the month. Estimated demand for gasoline fell for the second month in a row, dropping 2.3 percent from last month, to 8.0 million barrels per day. Notably, a comparison of current estimated gasoline demand with year-ago data shows a nearly 5-percent growth. Estimated demand for distillates shows significant month-to-month growth, rising approximately 5.7 percent to 3.3 million barrels per day, while a year-

**Figure HL1. Crude Oil and Petroleum Product Wholesale Prices**



Sources: Energy Information Administration. Crude oil refiner acquisition cost: Form EIA-14, "Refiners' Monthly Cost Report"; petroleum product prices: Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table HL1. U.S. Refiner Prices and Volumes of Petroleum Products**

(Prices: Cents per Gallon Excluding Taxes, Volumes: Million Gallons per Day)

Products	Sales to End Users						Sales for Resale					
	September 1997		August 1997		September 1996		September 1997		August 1997		September 1996	
	Price	Volume	Price	Volume	Price	Volume	Price	Volume	Price	Volume	Price	Volume
<b>Motor Gasoline</b> .....	87.2	63.7	86.8	64.9	84.4	57.8	72.3	290.8	75.0	304.0	71.6	286.4
<b>Conventional</b> .....	83.7	39.0	85.2	40.3	83.1	37.6	68.1	200.3	72.4	210.0	69.2	194.5
Regular .....	79.9	27.8	81.5	28.7	79.4	26.5	66.1	155.0	70.3	161.3	67.1	148.9
Midgrade .....	89.5	6.2	90.7	6.4	88.2	6.0	72.2	16.4	76.1	17.5	73.3	16.6
Premium .....	97.4	5.0	98.3	5.2	95.9	5.1	76.8	28.9	81.1	31.2	78.0	29.0
<b>Oxygenated</b> .....	93.7	2.0	90.1	1.7	99.8	1.4	79.9	4.8	79.5	3.6	85.1	4.1
Regular .....	91.3	1.6	87.5	1.4	97.3	1.0	78.5	3.7	78.4	2.8	83.2	3.1
Midgrade .....	99.8	0.2	96.3	0.2	104.4	0.2	82.8	0.6	81.8	0.4	88.4	0.5
Premium .....	107.9	0.2	104.9	0.1	111.2	0.2	87.2	0.5	85.7	0.4	93.5	0.5
<b>Reformulated</b> .....	92.6	22.7	89.5	22.9	86.0	18.9	81.7	85.6	80.8	90.4	76.2	87.8
Regular .....	88.0	15.2	84.8	15.1	81.1	12.1	78.2	57.7	77.2	60.4	72.6	57.5
Midgrade .....	97.9	3.8	94.7	4.0	90.8	3.5	86.2	10.8	84.5	11.5	79.8	11.4
Premium .....	106.0	3.7	102.8	3.8	98.8	3.3	90.7	17.1	90.1	18.5	85.0	19.0
<b>Aviation Gasoline</b> .....	115.6	0.2	114.6	0.2	114.3	0.2	108.9	0.7	108.9	0.8	106.8	0.7
<b>Kerosene-Type Jet Fuel</b> .....	58.2	51.1	59.1	51.8	71.8	50.6	58.8	10.5	59.4	12.0	71.6	10.0
<b>Propane (Consumer Grade)</b> .....	48.4	3.1	50.5	2.3	51.4	4.1	39.5	32.5	37.5	28.7	45.2	30.4
<b>Kerosene</b> .....	63.4	0.3	64.9	0.2	76.4	0.3	60.0	2.0	60.5	1.2	75.6	2.0
<b>No. 1 Distillate</b> .....	61.1	0.2	61.8	0.2	77.5	0.2	67.2	0.9	67.3	0.4	83.3	0.9
<b>No. 2 Distillate</b> .....	60.3	26.1	61.5	23.9	72.8	24.0	57.0	121.4	58.1	112.5	71.0	112.0
No. 2 Fuel Oil .....	58.0	2.9	59.0	3.0	72.1	2.6	54.3	27.0	55.3	25.0	68.7	26.8
No. 2 Diesel Fuel .....	60.6	23.2	61.8	20.9	72.9	21.4	57.8	94.4	58.9	87.5	71.7	85.2
Low Sulfur .....	62.0	15.4	63.6	14.0	74.6	14.2	58.0	80.4	59.2	73.2	72.0	71.6
High Sulfur .....	57.9	7.7	58.3	6.9	69.5	7.2	56.9	14.0	57.3	14.3	70.0	13.6
<b>No. 4 Fuel<sup>a</sup></b> .....	51.1	0.2	51.6	0.2	58.5	0.2	54.1	0.1	52.6	0.2	57.2	0.2
<b>Residual Fuel Oil</b> .....	41.5	13.2	40.7	12.3	44.9	10.9	38.5	11.3	38.3	12.3	41.2	11.8
Sulfur Content not > 1 % .....	46.1	2.9	44.6	2.9	51.2	2.3	39.8	4.7	39.4	5.1	42.6	4.3
Sulfur Content > 1 % .....	40.2	10.4	39.5	9.4	43.2	8.7	37.6	6.6	37.6	7.2	40.3	7.5

<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

to-year comparison indicates a rise of about 3.9 percent.

September market and sales activity for crude oil and the principal petroleum products are summarized in the following sections.

## Crude Oil

The daily spot price for West Texas Intermediate (WTI) crude oil at Cushing, Oklahoma, remained steady for most of September, then rose during the final week of the month with events in the Middle

East providing the principal impetus behind the rising price. Opening at \$19.66 per barrel, the price underwent only marginal changes for the next several weeks. After reaching the low of \$19.30 per barrel on September 15, the price continued on a quiet course for another week. During the final week of the month, the price moved up significantly, reaching the high of \$21.29 per barrel on September 29. Closing the month at \$21.13 per barrel, the price was \$1.47 per barrel higher than its opening level.

- At most, September monthly average crude oil prices show minimal changes. The average domestic crude oil first purchase price rose 23 cents (1.4 percent) to \$16.44 per barrel.

- The average free-on-board (f.o.b.) cost of imported crude oil dropped 3 cents (0.2 percent), to \$16.57 per barrel. The average landed cost of foreign crude oil remained essentially flat at \$17.66 per barrel.
- Monthly average refiner acquisition costs for crude remained flat. The average refiner acquisition cost of domestic crude oil continued at \$18.59 per barrel. The average cost of imported crude oil to U.S. refiners stayed at \$17.96 per barrel. The composite refiner acquisition cost of crude remained at \$18.23 per barrel.
- Sales of finished motor gasoline by refiners fell again in all categories of sales during September. Total sales declined 14.4 million gallons per day (3.9 percent), to an average of 354.5 million gallons per day. Retail sales dropped 1.2 million gallons per day (1.8 percent). Wholesales decreased 13.2 million gallons per day (4.3 percent). Rack sales accounted for 62.2 percent of total wholesales, while DTW and bulk sales explained 24.9 percent and 12.9 percent, respectively. Reformulated gasoline (RFG) comprised 30.6 percent of total motor gasoline sales, while oxygenated gasoline made up 1.9 percent of sales.

## Petroleum Products

### *Motor Gasoline*

The September daily spot price for unleaded regular gasoline at New York Harbor retreated sharply from the robust levels seen during August, moving against the general price trends seen for other major products. The price attained the month's high of 70.0 cents per gallon on September 2, then fell significantly over the next several weeks, due principally to rising stocks and easing demand. The price reached the low of 59.4 cents per gallon on September 24. After regaining some ground during the final days of the month, the price closed at 62.5 cents per gallon, 6.4 cents per gallon lower than where it started September.

- Monthly average gasoline prices were mixed during September. The average price for retail sales of motor gasoline by refiners rose 0.4 cent, to 87.2 cents per gallon while the average wholesale price dropped 2.7 cents to 72.3 cents per gallon. Including data reported by a sample of motor gasoline marketers, the national average retail price at company-operated retail outlets remained flat at 86.4 cents per gallon. The average wholesale price decreased 2.6 cents, to 72.4 cents per gallon. The average dealer tank wagon (DTW) price rose 0.1 cent to 81.1 cents per gallon. The average rack price decreased 4.2 cents to 69.3 cents per gallon, while the average bulk sales price dropped 2.9 cents, to 63.3 cents per gallon. The spread between reformulated and conventional gasoline prices widened to 7.2 cents at retail, and 11.0 cents at wholesale. The margin between conventional and oxygenated gasoline prices expanded to 9.1 cents and 10.2 cents at retail and wholesale, respectively.

### *No. 2 Distillate*

During September, the daily spot price at New York Harbor for No. 2 heating oil followed a generally rising path, driven by interest in the product during the market's transition to the heating season. The price opened at 51.8 cents per gallon and continued on a generally unremarkable course before hitting the month's low of 49.9 cents per gallon on September 10. During the following weeks, the price rose due to a variety of market-related factors. On September 29, the price reached the high of 58.1 cents per gallon, then closed the month at 57.9 cents per gallon, 6.2 cents per gallon higher than where it started.

- The September monthly average prices for No. 2 distillate exhibited only slight changes from August levels. The national average residential price underwent the largest change, rising 1.7 cents to 88.6 cents per gallon. The average wholesale price fell modestly, dropping 0.9 cent, to 57.9 cents per gallon. The average price for No. 2 diesel fuel at company-operated retail outlets decreased 0.6 cent, while the average wholesale price fell 0.9 cent per gallon. The margins between low- and high-sulfur diesel fuel prices eased to 1.6 cents per gallon at retail, and to 0.9 cent per gallon at wholesale.
- Refiner sales of No. 2 distillate rose considerably in September. Total sales rose 11.1 million gallons per day (8.1 percent), to 147.5 million gallons per day. Sales of No. 2 fuel oil increased 1.9 million gallons per day (6.8 percent) while sales of No. 2 diesel fuel rose 9.2 million gallons per day (8.5 percent). Low-sulfur diesel fuel sales constituted 81.5 percent of all refiner diesel fuel sales and 64.9 percent of all refiner No. 2 distillate sales.



## *Residual Fuel Oil*

- September monthly average residual fuel oil prices show little or no change from August levels in all categories of sales. Refiner prices for low-sulfur residual fuel rose 1.5 cents to 46.1 cents per gallon at retail and 0.4 cent to 39.8 cents per gallon at wholesale. Refiner high-sulfur residual fuel prices increased 0.7 cent to 40.2 cents per gallon at retail and remained flat at 37.6 cents per gallon at wholesale. Including data reported by the sample of residual fuel oil marketers, the average low-sulfur price gained 0.8 cent, rising to 43.9 cents per gallon at retail, but remained flat at 40.1 cents per gallon at wholesale. The average price for high-sulfur residual fuel oil rose 0.8 cent, to 40.3 cents per gallon at retail and 0.1 cent to 38.0 cents per gallon at wholesale.
- Changes in the volume of sales of residual fuel oil by refiners were slight during August. Total sales fell 100,000 gallons per day (0.4 percent), to 24.5 million gallons per day. Low-sulfur residual fuel sales dropped 400,000 gallons per day (5.0 per-

cent), while high-sulfur residual fuel oil increased 400,000 gallons per day (2.4 percent).

## *Other Products*

- Prices for other products varied during September. Refiner propane prices fell 2.1 cents per gallon at retail, but rose 2.0 cents per gallon at wholesale. Including the sample of propane marketers, the average residential propane price increased 1.1 cents per gallon, while the average end-user price decreased 0.4 cent. The average wholesale price gained 1.9 cents per gallon. Prices for kerosene, kerosene-type jet fuel, and No. 1 distillate fell at both levels, while aviation gasoline rose at retail and remained flat at wholesale. No. 4 distillate prices fell at retail but gained at wholesale.
- The September volumes of sales by refiners for these products were mixed. Sales of propane and kerosene posted gains at both levels while sales of kerosene-type jet fuel fell in both categories. No. 1 distillate, aviation gasoline, and No. 4 distillate sales were mixed.

# Summary Statistics

**Table 1. Crude Oil Prices**  
(Dollars per Barrel)

Year Month	Domestic First Purchase Prices	Average F.O.B. <sup>a</sup> Cost of Crude Oil Imports <sup>b</sup>	Average Landed Cost of Crude Oil Imports <sup>b</sup>	Refiner Acquisition Cost of Crude Oil		
				Domestic	Imported	Composite
1978 .....	9.00	13.29	14.35	10.61	14.57	12.46
1979 .....	12.64	20.07	21.45	14.27	21.67	17.72
1980 .....	21.59	32.37	33.67	24.23	33.89	28.07
1981 .....	31.77	35.15	36.47	34.33	37.05	35.24
1982 .....	28.52	32.02	33.18	31.22	33.55	31.87
1983 .....	26.19	27.81	28.93	28.87	29.30	28.99
1984 .....	25.88	27.60	28.54	28.53	28.88	28.63
1985 .....	24.09	25.84	26.67	26.66	26.99	26.75
1986 .....	12.51	12.52	13.49	14.82	14.00	14.55
1987 .....	15.40	16.69	17.65	17.76	18.13	17.90
1988 .....	12.58	13.25	14.08	14.74	14.56	14.67
1989 .....	15.86	16.89	17.68	17.87	18.08	17.97
1990 .....	20.03	20.37	21.13	22.59	21.76	22.22
1991 .....	16.54	16.89	18.02	19.33	18.70	19.06
1992 .....	15.99	16.77	17.75	18.63	18.20	18.43
1993 .....	14.25	14.71	15.72	16.67	16.14	16.41
1994 .....	13.19	14.18	15.18	15.67	15.51	15.59
<b>1995</b>						
January .....	14.00	15.08	16.23	16.52	16.56	16.54
February .....	14.71	15.65	16.74	17.16	17.21	17.18
March .....	14.68	15.88	17.04	17.31	17.21	17.26
April .....	15.84	17.28	18.26	18.20	18.70	18.43
May .....	15.85	17.30	18.18	18.68	18.56	18.62
June .....	15.02	15.91	17.07	17.94	17.43	17.69
July .....	14.01	14.82	15.96	16.85	16.50	16.68
August .....	14.13	15.05	16.10	16.96	16.54	16.75
September .....	14.49	15.24	16.38	17.12	16.71	16.91
October .....	13.68	14.68	15.87	16.82	16.29	16.55
November .....	14.03	15.30	16.30	16.73	16.52	16.62
December .....	15.02	16.06	17.05	17.55	17.53	17.54
<b>1995</b> .....	<b>14.62</b>	<b>15.69</b>	<b>16.78</b>	<b>17.33</b>	<b>17.14</b>	<b>17.23</b>
<b>1996</b>						
January .....	15.43	16.17	17.31	17.98	17.48	17.74
February .....	15.54	16.86	17.81	18.10	17.77	17.95
March .....	17.63	18.77	19.61	19.63	19.90	19.76
April .....	19.58	19.56	20.73	21.88	21.33	21.63
May .....	17.94	18.34	19.61	21.15	20.12	20.61
June .....	16.94	17.61	18.83	19.30	19.32	19.31
July .....	17.63	18.21	19.35	19.91	19.60	19.76
August .....	18.29	19.27	20.30	20.55	20.53	20.54
September .....	19.93	21.03	21.95	21.87	22.04	21.96
October .....	21.09	22.23	23.05	22.93	23.22	23.08
November .....	20.20	21.31	22.24	23.08	22.66	22.87
December .....	21.34	21.56	22.48	23.38	23.22	23.30
<b>1996</b> .....	<b>18.46</b>	<b>19.32</b>	<b>20.31</b>	<b>20.77</b>	<b>20.64</b>	<b>20.71</b>
<b>1997</b>						
January .....	21.76	21.31	22.31	24.29	23.05	23.62
February .....	19.38	18.99	19.98	22.47	20.92	21.65
March .....	17.85	17.11	18.45	20.57	19.16	19.82
April .....	16.64	16.20	17.52	19.01	17.85	18.36
May .....	17.24	16.81	17.87	19.20	18.54	18.84
June .....	15.90	15.99	17.12	18.45	17.38	17.87
July .....	15.91	16.38	17.28	18.35	17.48	17.88
August .....	16.21	16.60	17.65	18.59	17.96	18.23
September .....	16.44	16.57	17.66	18.59	17.96	18.23

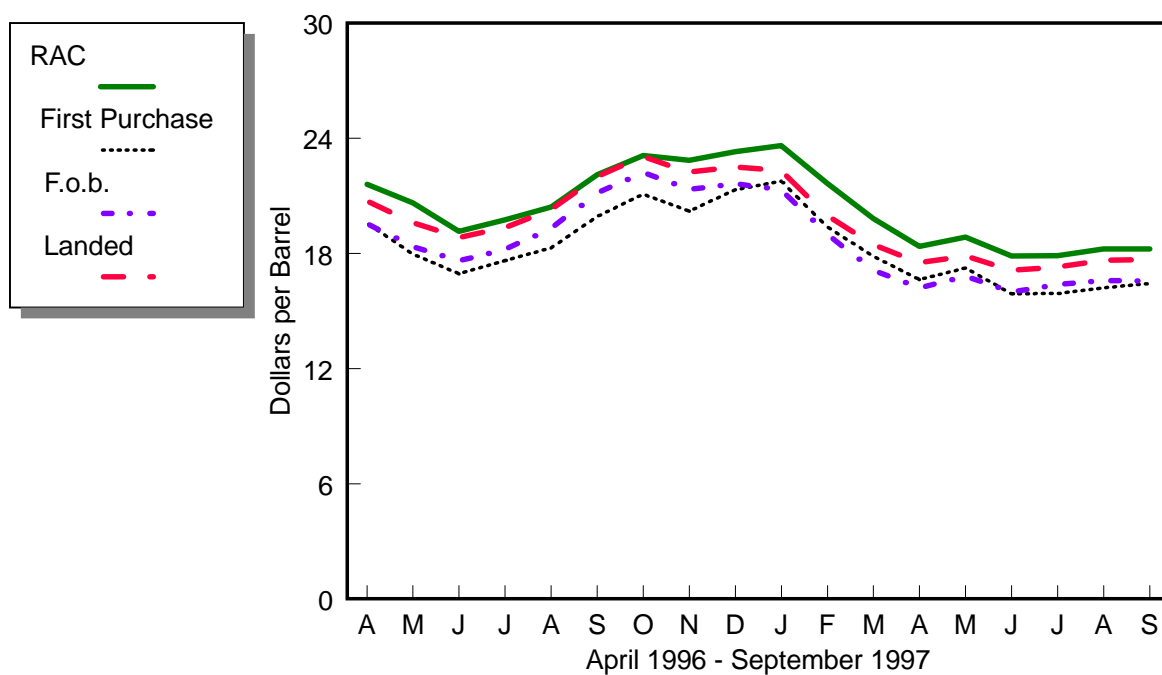
<sup>a</sup> Free on Board. See Glossary.

<sup>b</sup> Values through 1980 reflect the month of reporting; values since then reflect the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. Prices for crude oil can be determined at a time other than the acquisition date. See the Explanatory Notes section for additional detail.

Notes: Values for Domestic First Purchase and Refiner Acquisition for the current month, and for Average F.O.B. and Average Landed for current 2 months are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Domestic first purchase prices -- See "Sources" from Table 21. Crude oil imports costs -- See "Sources" from Table 24. Refiner acquisition costs -- Energy Information Administration, Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report," January 1978 through June 1978; Form ERA-49, "Domestic Crude Oil Entitlements Program Refiners' Monthly Report," July 1978 through December 1980; Form EIA-14, "Refiners' Monthly Cost Report," January 1981 to present.

Figure 1. Crude Oil Prices



Sources: Energy Information Administration, Form EIA-182, "Domestic Crude Oil First Purchase Report"; Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report"; and Form EIA-14, "Refiners' Monthly Cost Report."

**Table 2. U.S. Refiner Prices of Petroleum Products to End Users**

(Cents per Gallon Excluding Taxes)

Year Month	Motor Gasoline	Aviation Gasoline	Kerosene- Type Jet Fuel	Propane (Consumer Grade)	Kerosene	No. 1 Distillate	No. 2 Distillate			No. 4 Fuel <sup>a</sup>	Residual Fuel Oil
							No. 2 Diesel Fuel	No. 2 Fuel Oil	Average		
1978 .....	48.4	51.6	38.7	33.5	42.1	41.0	37.7	40.0	39.6	31.1	29.8
1979 .....	71.3	68.9	54.7	35.7	58.5	57.2	58.5	51.6	55.1	47.9	43.6
1980 .....	103.5	108.4	86.8	48.2	90.2	83.4	81.8	78.8	80.4	68.2	60.7
1981 .....	114.7	130.3	102.4	56.5	112.3	103.9	99.5	91.4	95.8	79.7	75.6
1982 .....	106.0	131.2	96.3	59.2	108.9	102.3	94.2	90.5	92.5	75.0	67.6
1983 .....	95.4	125.5	87.8	70.9	96.1	96.2	82.6	91.6	83.9	76.6	65.1
1984 .....	90.7	123.4	84.2	73.7	103.6	92.7	82.3	91.6	83.7	79.6	68.7
1985 .....	91.2	120.1	79.6	71.7	103.0	88.0	78.9	84.9	79.9	77.3	61.0
1986 .....	62.4	101.1	52.9	74.5	79.0	62.0	47.8	56.0	49.1	48.9	34.3
1987 .....	66.9	90.7	54.3	70.1	77.0	60.4	55.1	58.1	55.6	51.3	42.3
1988 .....	67.3	89.1	51.3	71.4	73.8	56.4	50.0	54.4	50.7	46.1	33.4
1989 .....	75.6	99.5	59.2	61.5	70.9	66.1	58.5	58.7	58.5	51.2	38.5
1990 .....	88.3	112.0	76.6	74.5	92.3	81.9	72.5	73.4	72.6	62.2	44.4
1991 .....	79.7	104.7	65.2	73.0	83.8	74.0	64.8	66.5	65.0	58.0	34.0
1992 .....	78.7	102.7	61.0	64.3	78.8	66.6	61.9	62.7	62.0	52.6	33.6
1993 .....	75.9	99.0	58.0	67.3	75.4	66.6	60.2	60.2	60.2	50.1	33.7
1994 .....	73.8	95.7	53.4	53.0	66.0	64.0	55.4	57.2	55.6	50.1	35.2
<b>1995</b>											
January .....	74.5	99.6	52.3	54.0	67.4	59.2	53.2	57.3	53.9	50.5	40.2
February .....	73.3	99.8	52.2	55.6	62.8	59.1	53.1	56.9	53.8	50.1	39.8
March .....	73.1	99.0	50.5	53.9	59.4	60.0	53.4	55.3	53.6	51.0	40.5
April .....	77.3	101.3	52.8	46.6	56.1	62.5	56.5	56.2	56.5	48.9	40.3
May .....	83.4	105.8	55.0	43.1	51.7	61.7	57.9	56.2	57.7	50.9	42.2
June .....	83.9	106.4	53.2	42.9	54.9	59.7	55.7	52.7	55.4	52.0	42.1
July .....	80.0	101.8	51.9	42.2	51.3	59.3	54.0	51.5	53.7	45.6	38.1
August .....	76.9	99.2	53.4	44.9	53.3	62.4	55.8	53.3	55.5	45.3	35.1
September .....	75.8	101.3	55.7	45.7	57.3	64.5	57.4	56.2	57.3	49.9	35.1
October .....	73.5	96.8	54.9	49.3	56.5	62.9	56.5	54.1	56.2	48.9	35.9
November .....	71.8	95.4	57.0	51.7	62.8	68.0	58.2	58.7	58.3	52.2	37.4
December .....	73.0	96.0	59.2	55.0	70.0	66.2	59.3	62.3	59.8	57.3	43.2
1995 .....	76.5	100.5	54.0	49.2	58.9	62.0	56.0	56.2	56.0	50.5	39.2
<b>1996</b>											
January .....	74.8	101.2	61.3	63.7	71.8	65.1	59.0	63.5	59.8	60.4	47.9
February .....	74.9	100.6	56.9	64.2	73.4	66.6	60.0	64.1	60.8	58.5	44.9
March .....	79.8	105.0	59.0	63.0	69.0	71.0	64.4	66.8	64.7	61.8	44.7
April .....	88.1	111.4	66.0	57.0	80.5	75.9	71.9	69.9	71.6	65.1	45.1
May .....	92.7	114.4	63.3	49.5	68.4	73.7	69.8	64.9	69.3	63.2	43.3
June .....	90.3	113.5	57.7	48.5	58.5	64.4	62.2	57.5	61.7	53.8	40.8
July .....	87.5	113.7	60.3	50.8	64.6	65.1	62.3	59.4	62.0	50.8	41.0
August .....	84.9	114.4	65.1	48.6	69.5	71.0	66.4	66.1	66.4	52.5	42.0
September .....	84.4	114.3	71.8	51.4	76.4	77.5	72.9	72.1	72.8	58.5	44.9
October .....	84.4	115.0	73.6	57.7	87.1	82.3	76.9	75.1	76.7	62.1	48.5
November .....	86.8	115.1	71.7	71.1	88.7	79.2	75.7	75.0	75.6	63.7	49.7
December .....	86.0	115.3	74.0	87.5	90.7	77.7	74.4	75.1	74.5	65.9	49.9
1996 .....	84.7	111.6	65.1	60.5	74.0	72.6	68.1	67.3	68.0	60.3	45.5
<b>1997</b>											
January .....	86.6	113.7	74.4	86.6	88.7	77.5	73.0	75.5	73.3	65.8	49.2
February .....	86.1	114.9	71.7	66.8	84.8	76.0	71.1	72.5	71.3	59.6	45.0
March .....	84.3	113.8	61.9	57.3	NA	68.8	65.8	66.4	65.8	54.6	40.3
April .....	83.9	114.7	60.3	49.7	69.8	66.3	64.8	63.8	64.7	55.9	39.7
May .....	84.5	115.7	58.8	46.5	68.4	64.2	63.8	62.9	63.7	53.4	40.3
June .....	83.3	114.6	57.6	46.1	64.3	62.8	60.7	59.2	60.5	52.8	40.1
July .....	81.5	112.5	56.7	47.5	63.1	58.6	59.4	57.3	59.1	50.3	39.6
August .....	86.8	114.6	59.1	50.5	64.9	61.8	61.8	59.0	61.5	51.6	40.7
September .....	87.2	115.6	58.2	48.4	63.4	61.1	60.6	58.0	60.3	51.1	41.5

NA = Not available.

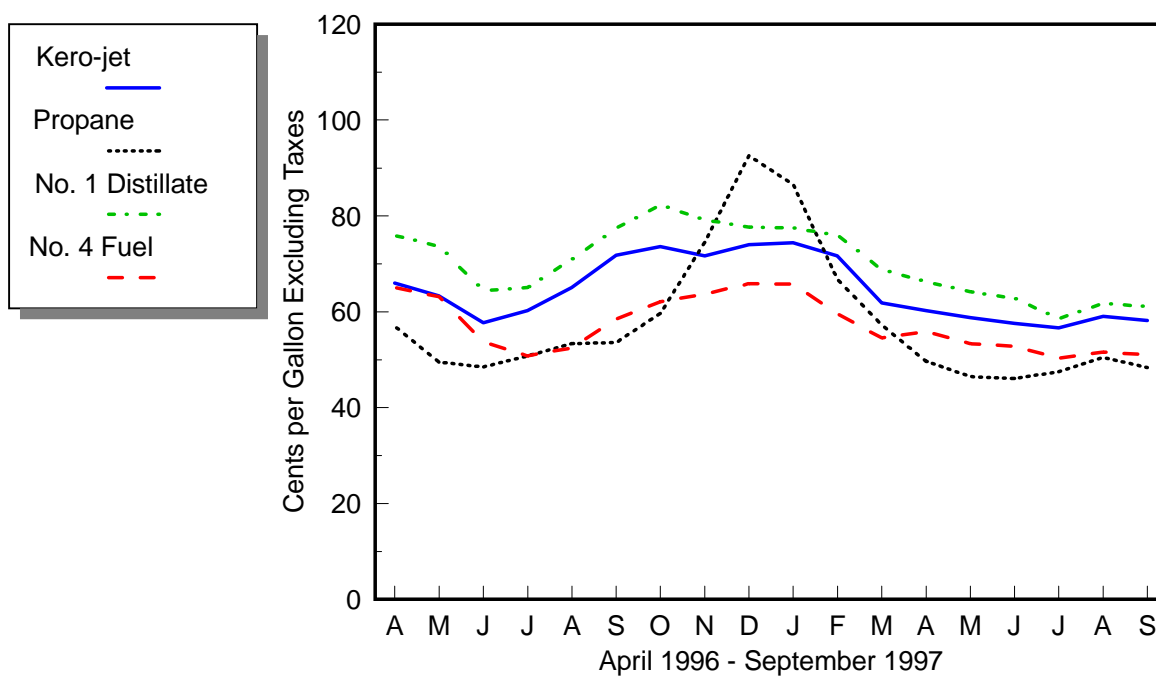
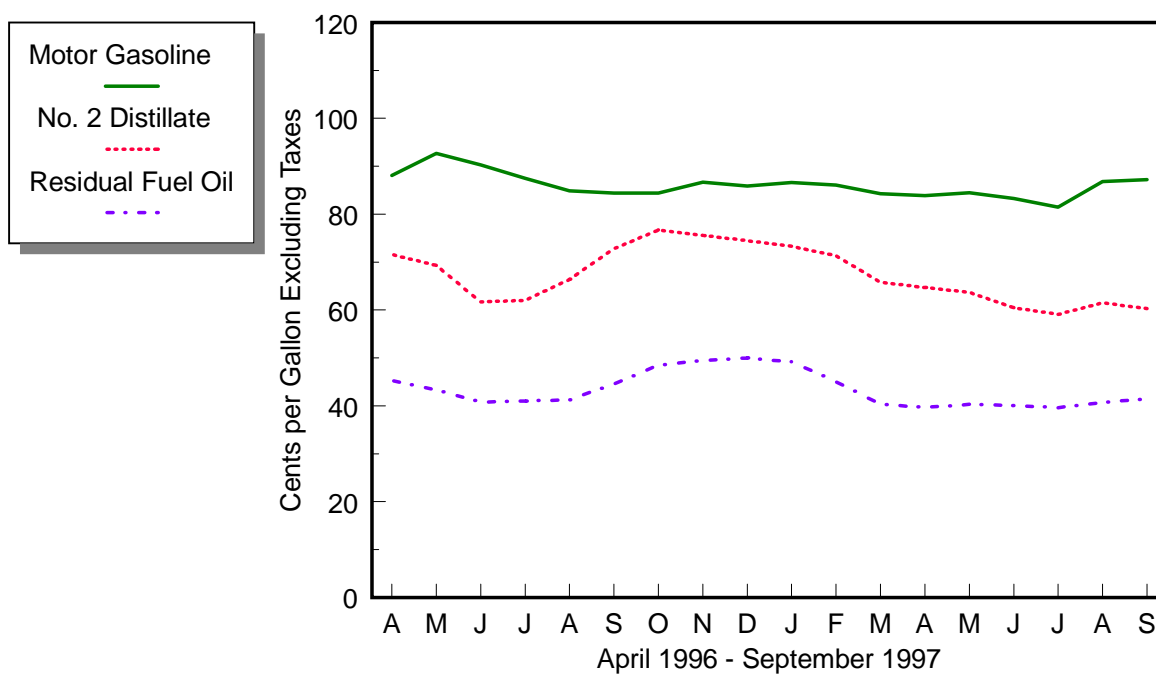
<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," January 1983 forward; Form EIA-460, "Petroleum Industry Monthly Report for Product Prices," source for backcast estimates prior to January 1983.

Figure 2. U.S. Refiner Retail Petroleum Product Prices



Source: Energy Information Administration, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 3. U.S. Refiner Volumes of Petroleum Products to End Users**

(Million Gallons per Day)

Year Month	Motor Gasoline	Aviation Gasoline	Kerosene- Type Jet Fuel	Propane (Consumer Grade)	Kerosene	No. 1 Distillate	No. 2 Distillate			No. 4 Fuel <sup>a</sup>	Residual Fuel Oil
							No. 2 Diesel Fuel	No. 2 Fuel Oil	Total		
<b>1983</b> .....	<b>51.1</b>	<b>0.4</b>	<b>30.8</b>	<b>3.1</b>	<b>0.2</b>	<b>0.5</b>	<b>23.3</b>	<b>3.7</b>	<b>27.0</b>	<b>0.7</b>	<b>28.3</b>
<b>1984</b> .....	<b>57.6</b>	<b>0.3</b>	<b>32.9</b>	<b>3.3</b>	<b>0.3</b>	<b>0.5</b>	<b>26.3</b>	<b>4.9</b>	<b>31.2</b>	<b>0.7</b>	<b>32.9</b>
<b>1985</b> .....	<b>57.5</b>	<b>0.3</b>	<b>34.6</b>	<b>3.7</b>	<b>0.3</b>	<b>0.5</b>	<b>25.0</b>	<b>5.0</b>	<b>29.9</b>	<b>0.5</b>	<b>25.2</b>
<b>1986</b> .....	<b>61.2</b>	<b>0.3</b>	<b>35.1</b>	<b>3.4</b>	<b>0.3</b>	<b>0.4</b>	<b>24.4</b>	<b>4.4</b>	<b>28.8</b>	<b>0.7</b>	<b>31.6</b>
<b>1987</b> .....	<b>61.0</b>	<b>0.2</b>	<b>36.8</b>	<b>3.8</b>	<b>0.3</b>	<b>0.4</b>	<b>24.1</b>	<b>4.5</b>	<b>28.5</b>	<b>0.8</b>	<b>29.0</b>
<b>1988</b> .....	<b>61.0</b>	<b>0.2</b>	<b>38.2</b>	<b>4.3</b>	<b>0.3</b>	<b>0.4</b>	<b>24.5</b>	<b>4.6</b>	<b>29.1</b>	<b>1.1</b>	<b>30.2</b>
<b>1989</b> .....	<b>61.2</b>	<b>0.2</b>	<b>40.1</b>	<b>2.8</b>	<b>0.3</b>	<b>0.5</b>	<b>24.3</b>	<b>4.5</b>	<b>28.8</b>	<b>0.9</b>	<b>30.4</b>
<b>1990</b> .....	<b>60.3</b>	<b>0.2</b>	<b>39.9</b>	<b>2.7</b>	<b>0.2</b>	<b>0.5</b>	<b>22.2</b>	<b>3.6</b>	<b>25.9</b>	<b>0.8</b>	<b>25.9</b>
<b>1991</b> .....	<b>61.2</b>	<b>0.2</b>	<b>38.5</b>	<b>3.1</b>	<b>0.2</b>	<b>0.5</b>	<b>21.1</b>	<b>3.2</b>	<b>24.4</b>	<b>0.7</b>	<b>24.0</b>
<b>1992</b> .....	<b>59.0</b>	<b>0.2</b>	<b>39.8</b>	<b>3.8</b>	<b>0.2</b>	<b>0.5</b>	<b>21.5</b>	<b>3.1</b>	<b>24.6</b>	<b>0.6</b>	<b>22.4</b>
<b>1993</b> .....	<b>57.2</b>	<b>0.2</b>	<b>41.7</b>	<b>3.5</b>	<b>0.2</b>	<b>0.4</b>	<b>20.8</b>	<b>2.9</b>	<b>23.8</b>	<b>0.6</b>	<b>17.2</b>
<b>1994</b> .....	<b>55.0</b>	<b>0.2</b>	<b>45.2</b>	<b>2.2</b>	<b>0.4</b>	<b>0.4</b>	<b>21.3</b>	<b>3.4</b>	<b>24.6</b>	<b>0.8</b>	<b>13.5</b>
<b>1995</b>											
January .....	51.2	0.2	45.1	3.9	0.6	0.6	20.1	3.6	23.7	0.9	12.8
February .....	54.1	0.2	44.6	4.0	0.8	0.6	21.2	4.2	25.4	0.9	13.9
March .....	55.6	0.2	44.5	3.0	0.6	0.4	21.7	3.3	25.0	0.7	12.0
April .....	55.5	0.2	44.4	3.3	0.6	0.2	21.1	3.0	24.1	0.4	11.0
May .....	56.2	0.2	45.9	3.3	0.4	0.1	21.8	2.9	24.6	0.2	10.5
June .....	58.5	0.2	47.2	2.8	0.6	0.1	22.9	2.9	25.8	0.2	10.2
July .....	56.9	0.2	45.8	2.7	0.8	0.1	20.6	2.6	23.2	0.3	10.2
August .....	58.3	0.3	47.7	2.6	0.7	0.2	22.8	3.3	26.1	0.4	11.4
September .....	56.6	0.2	45.4	3.0	0.5	0.2	22.1	2.9	25.0	0.2	11.8
October .....	55.6	0.2	46.6	2.9	0.7	0.2	22.0	3.1	25.1	0.2	10.6
November .....	55.9	0.2	46.8	3.3	0.7	0.3	22.6	3.6	26.2	0.4	11.8
December .....	56.5	0.2	44.6	4.1	0.7	0.5	20.6	4.1	24.7	0.6	12.7
<b>1995</b> .....	<b>55.9</b>	<b>0.2</b>	<b>45.7</b>	<b>3.2</b>	<b>0.6</b>	<b>0.3</b>	<b>21.6</b>	<b>3.3</b>	<b>24.9</b>	<b>0.5</b>	<b>11.6</b>
<b>1996</b>											
January .....	53.0	0.1	46.5	3.3	0.8	0.6	20.2	4.4	24.5	0.9	14.4
February .....	54.6	0.2	46.8	4.0	0.7	0.6	21.8	4.7	26.5	0.9	15.0
March .....	56.4	0.2	47.8	2.9	0.7	0.3	21.2	3.3	24.6	0.5	12.7
April .....	57.2	0.2	48.1	2.7	0.3	0.2	22.6	3.1	25.7	0.4	11.8
May .....	57.8	0.2	49.0	2.6	0.3	0.1	22.9	2.8	25.7	0.3	10.7
June .....	59.2	0.2	50.1	2.2	0.4	0.2	22.0	2.7	24.7	0.3	11.3
July .....	58.9	0.2	50.3	2.1	0.2	0.1	21.7	2.4	24.1	0.3	11.7
August .....	59.7	0.2	50.3	2.3	0.2	0.2	22.1	2.6	24.7	0.2	12.3
September .....	57.8	0.2	50.6	4.1	0.3	0.2	21.4	2.6	24.0	0.2	10.9
October .....	58.5	0.2	48.0	3.9	0.3	0.3	23.1	2.7	25.8	0.3	13.5
November .....	58.1	0.1	48.1	3.3	0.3	0.5	22.8	3.1	25.9	0.4	14.3
December .....	59.2	0.1	49.3	3.4	0.3	0.8	21.2	3.0	24.2	0.5	15.7
<b>1996</b> .....	<b>57.5</b>	<b>0.2</b>	<b>48.7</b>	<b>3.1</b>	<b>0.4</b>	<b>0.3</b>	<b>21.9</b>	<b>3.1</b>	<b>25.0</b>	<b>0.4</b>	<b>12.9</b>
<b>1997</b>											
January .....	54.8	0.1	45.6	3.2	0.5	0.6	21.8	3.5	25.4	0.6	15.0
February .....	58.0	0.1	47.6	3.7	0.4	0.6	22.3	2.8	25.1	0.4	15.1
March .....	59.3	0.2	48.0	3.3	0.4	0.3	22.2	2.6	24.8	0.3	13.8
April .....	58.9	0.2	49.0	3.4	0.3	0.2	23.6	2.9	26.5	0.2	11.3
May .....	58.2	0.2	49.2	2.9	0.3	0.2	22.8	2.7	25.5	0.2	10.9
June .....	60.0	0.2	51.4	2.3	0.2	0.2	21.9	2.5	24.4	0.2	12.4
July .....	65.4	0.2	51.6	2.1	0.1	0.2	21.7	3.0	24.7	0.3	13.7
August .....	64.9	0.2	51.8	2.3	0.2	0.2	20.9	3.0	23.9	0.2	12.3
September .....	63.7	0.2	51.1	3.1	0.3	0.2	23.2	2.9	26.1	0.2	13.2

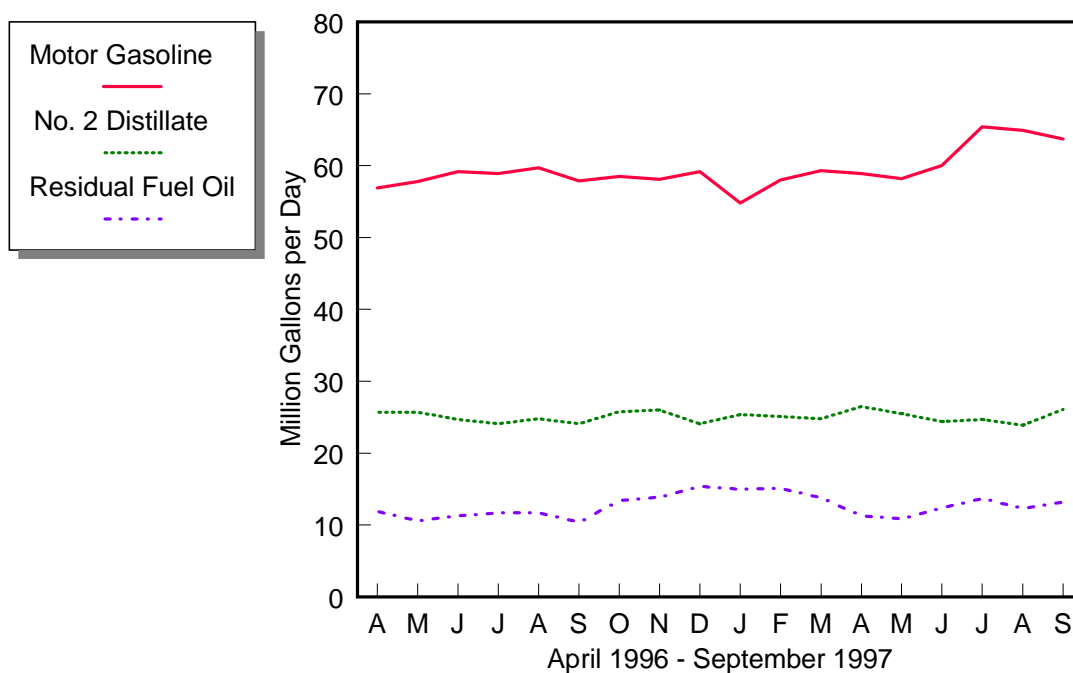
<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

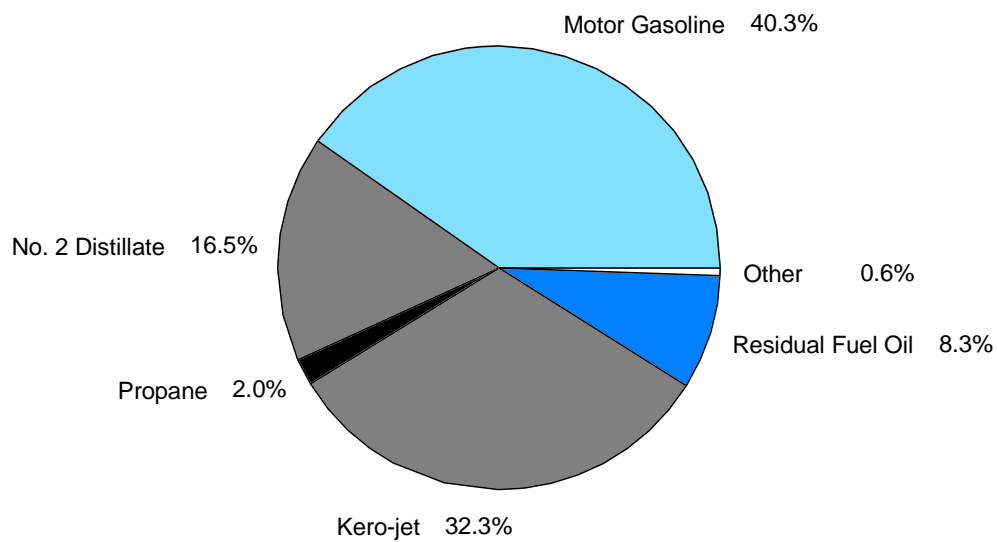
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*. Totals may not equal the sum of the components due to rounding.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Figure 3. U.S. Refiner Retail Petroleum Product Volumes



Percentages of Refiner Retail Volumes



Source: Energy Information Administration, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."



**Table 4. U.S. Refiner Prices of Petroleum Products for Resale**  
(Cents per Gallon Excluding Taxes)

Year Month	Motor Gasoline	Aviation Gasoline	Kerosene- Type Jet Fuel	Propane (Consumer Grade)	Kerosene	No. 1 Distillate	No. 2 Distillate			No. 4 Fuel <sup>a</sup>	Residual Fuel Oil
							No. 2 Diesel Fuel	No. 2 Fuel Oil	Average		
1978 .....	43.4	53.7	38.6	23.7	40.4	40.6	36.5	36.9	36.7	30.5	26.3
1979 .....	63.7	72.1	66.0	29.1	62.4	58.3	57.4	56.9	57.1	47.0	39.9
1980 .....	94.1	112.8	86.8	41.5	86.4	88.0	80.1	80.3	80.2	67.0	52.8
1981 .....	106.4	125.0	101.2	46.6	106.6	107.1	97.2	97.6	97.4	78.3	66.3
1982 .....	97.3	122.8	95.3	42.7	101.8	103.8	91.4	91.4	91.4	73.7	61.2
1983 .....	88.2	117.8	85.4	48.4	89.2	89.6	80.8	81.5	81.2	72.6	60.9
1984 .....	83.2	116.5	83.0	45.0	91.6	89.2	80.3	82.1	81.3	70.7	65.4
1985 .....	83.5	113.0	79.4	39.8	87.4	86.3	77.2	77.6	77.4	67.2	57.7
1986 .....	53.1	91.2	49.5	29.0	60.6	57.9	45.2	48.6	47.0	40.9	30.5
1987 .....	58.9	85.9	53.8	25.2	59.2	59.9	53.4	52.7	53.1	46.2	38.5
1988 .....	57.7	85.0	49.5	24.0	54.9	54.9	47.3	47.3	47.3	42.5	30.0
1989 .....	65.4	95.0	58.3	24.7	66.9	66.8	56.7	56.5	56.6	48.0	36.0
1990 .....	78.6	106.3	77.3	38.6	83.9	83.8	69.4	69.7	69.5	59.0	41.3
1991 .....	69.9	100.1	65.0	34.9	72.3	73.0	61.5	62.2	61.8	55.6	31.4
1992 .....	67.7	99.1	60.5	32.8	63.2	65.2	59.1	57.9	58.5	49.5	30.8
1993 .....	62.6	96.5	57.7	35.1	60.4	64.6	57.0	54.4	55.9	48.8	29.3
1994 .....	59.9	93.3	53.4	32.4	61.8	61.5	52.9	50.6	52.2	46.2	31.7
<b>1995</b> .....	<b>62.6</b>	<b>97.5</b>	<b>53.9</b>	<b>34.4</b>	<b>58.0</b>	<b>62.5</b>	<b>53.8</b>	<b>51.1</b>	<b>53.0</b>	<b>46.3</b>	<b>36.3</b>
January .....	60.0	92.9	52.2	35.6	56.6	58.9	50.1	49.4	49.8	46.1	36.6
February .....	60.3	93.2	52.0	34.5	55.2	57.9	50.6	49.2	50.0	46.6	35.4
March .....	60.0	93.1	50.1	34.3	52.8	59.1	51.2	48.1	50.2	42.5	37.0
April .....	66.5	96.6	52.6	33.0	56.0	57.7	54.7	50.5	53.4	45.6	36.5
May .....	71.8	102.2	54.7	33.1	57.7	62.7	55.9	52.4	55.0	48.7	38.8
June .....	68.2	101.6	53.1	32.6	53.2	58.7	52.6	49.4	51.8	46.6	38.7
July .....	62.9	100.1	51.3	32.1	52.3	57.8	51.4	48.1	50.6	41.8	35.3
August .....	62.0	98.9	53.1	33.2	54.9	60.6	54.2	51.0	53.5	45.2	33.1
September .....	62.3	98.7	55.2	33.8	58.0	68.3	55.7	52.0	54.8	43.5	33.8
October .....	58.8	96.3	54.1	34.4	57.0	64.3	54.6	50.5	53.7	46.1	34.1
November .....	58.0	94.2	56.3	34.7	60.5	65.8	56.3	53.4	55.4	46.0	34.4
December .....	59.9	95.3	58.6	37.9	64.0	66.9	57.6	57.3	57.5	51.6	40.6
<b>1995</b> .....	<b>62.6</b>	<b>97.5</b>	<b>53.9</b>	<b>34.4</b>	<b>58.0</b>	<b>62.5</b>	<b>53.8</b>	<b>51.1</b>	<b>53.0</b>	<b>46.3</b>	<b>36.3</b>
<b>1996</b> .....	<b>71.3</b>	<b>105.5</b>	<b>64.6</b>	<b>46.1</b>	<b>71.4</b>	<b>75.1</b>	<b>65.9</b>	<b>63.9</b>	<b>65.3</b>	<b>60.3</b>	<b>42.0</b>
January .....	61.0	94.7	60.3	41.6	65.8	65.0	56.2	56.8	56.4	60.3	45.2
February .....	61.6	96.5	57.3	44.2	65.7	66.6	57.9	58.9	58.2	58.2	40.1
March .....	67.9	100.6	59.6	41.1	68.0	70.5	61.9	62.8	62.2	59.1	42.0
April .....	76.1	107.5	65.3	37.8	75.1	78.2	70.1	67.5	69.4	61.6	43.7
May .....	78.0	110.0	62.2	36.2	66.1	79.2	66.8	61.1	65.5	57.8	41.0
June .....	73.0	107.0	57.5	36.2	59.8	69.3	59.1	53.7	57.8	54.3	37.4
July .....	72.3	105.3	59.6	36.9	61.7	69.8	60.0	57.1	59.4	51.8	38.9
August .....	71.1	107.1	64.5	38.9	66.6	76.7	64.9	62.1	64.3	54.7	39.0
September .....	71.6	106.8	71.6	45.2	75.6	83.3	71.7	68.7	71.0	57.2	41.2
October .....	72.8	107.1	73.6	51.1	80.7	85.7	75.4	72.7	74.7	63.9	45.0
November .....	74.5	108.4	72.2	57.9	79.7	84.0	73.3	71.4	72.7	65.7	46.3
December .....	73.1	107.1	73.0	67.7	79.0	80.0	71.0	71.2	71.1	65.7	46.0
<b>1996</b> .....	<b>71.3</b>	<b>105.5</b>	<b>64.6</b>	<b>46.1</b>	<b>71.4</b>	<b>75.1</b>	<b>65.9</b>	<b>63.9</b>	<b>65.3</b>	<b>60.3</b>	<b>42.0</b>
<b>1997</b> .....	<b>74.8</b>	<b>109.0</b>	<b>73.5</b>	<b>59.9</b>	<b>77.7</b>	<b>78.9</b>	<b>69.9</b>	<b>69.8</b>	<b>69.8</b>	<b>63.8</b>	<b>42.9</b>
January .....	74.8	109.0	73.5	59.9	77.7	78.9	69.9	69.8	69.8	63.8	42.9
February .....	73.1	108.7	71.4	44.7	73.4	77.0	67.8	64.5	66.6	58.8	39.4
March .....	71.5	107.9	61.8	41.3	63.2	72.7	62.5	57.7	61.1	53.7	35.8
April .....	70.4	108.5	60.5	37.7	62.1	70.6	61.7	58.6	61.0	49.7	36.1
May .....	71.1	108.2	59.4	36.9	61.1	69.7	60.7	58.8	60.3	52.9	35.8
June .....	68.3	105.9	58.1	36.4	57.1	66.5	56.5	54.5	56.1	47.0	36.7
July .....	67.5	104.9	56.8	35.9	56.2	63.6	55.8	53.8	55.4	46.0	36.6
August .....	75.0	108.9	59.4	37.5	60.5	67.3	58.9	55.3	58.1	52.6	38.3
September .....	72.3	108.9	58.8	39.5	60.0	67.2	57.8	54.3	57.0	54.1	38.5

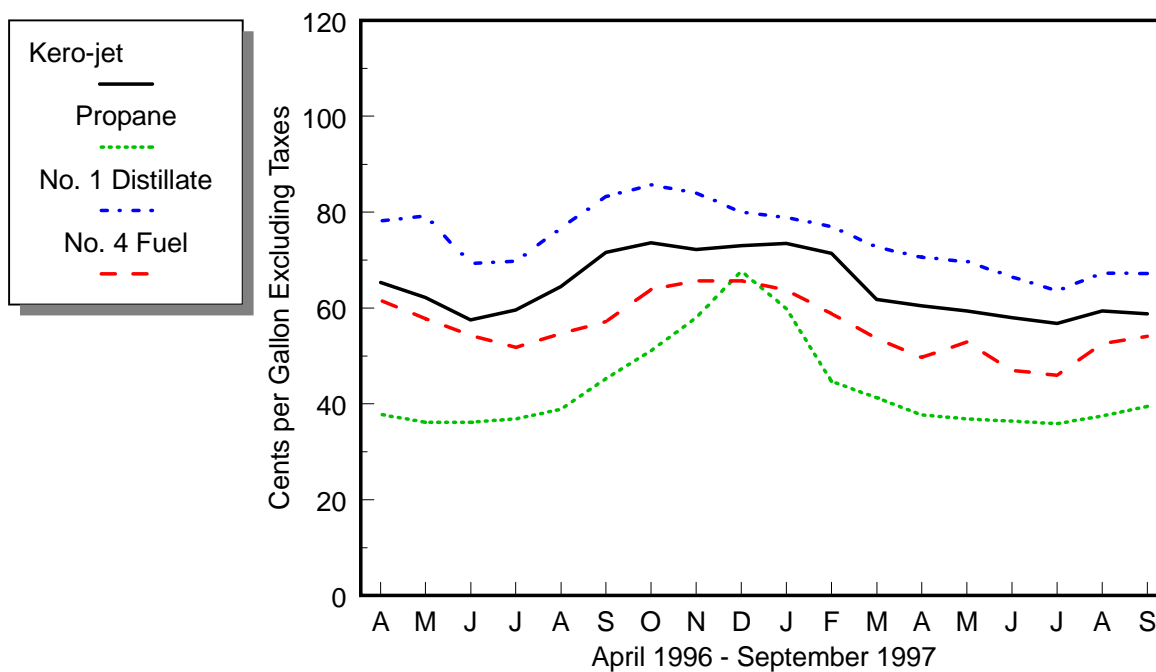
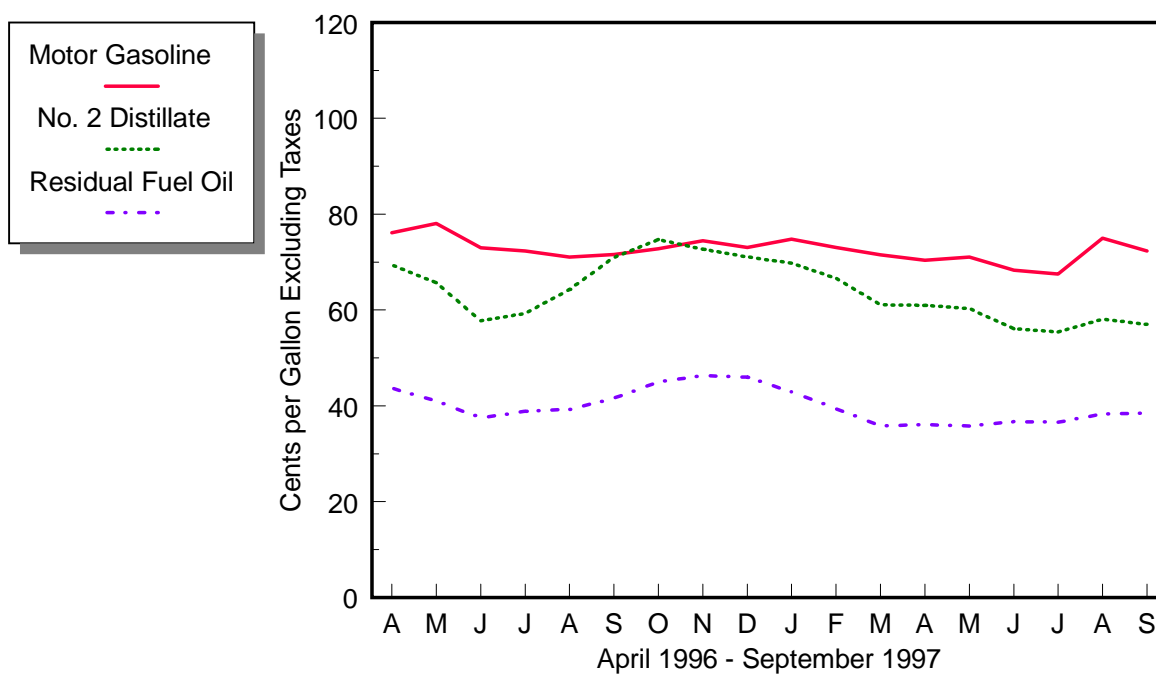
<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," January 1983 forward; Form EIA-460, "Petroleum Industry Monthly Report for Product Prices," source for backcast estimates prior to January 1983.

Figure 4. U.S. Refiner Wholesale Petroleum Product Prices



Source: Energy Information Administration, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 5. U.S. Refiner Volumes of Petroleum Products for Resale**

(Million Gallons per Day)

Year Month	Motor Gasoline	Aviation Gasoline	Kerosene- Type Jet Fuel	Propane (Consumer Grade)	Kerosene	No. 1 Distillate	No. 2 Distillate			No. 4 Fuel <sup>a</sup>	Residual Fuel Oil
							No. 2 Diesel Fuel	No. 2 Fuel Oil	Total		
<b>1983</b> .....	<b>242.5</b>	<b>0.7</b>	<b>5.4</b>	<b>26.0</b>	<b>2.5</b>	<b>2.4</b>	<b>38.1</b>	<b>47.3</b>	<b>85.5</b>	<b>0.9</b>	<b>20.2</b>
<b>1984</b> .....	<b>246.3</b>	<b>0.8</b>	<b>6.6</b>	<b>26.7</b>	<b>2.2</b>	<b>2.6</b>	<b>42.8</b>	<b>51.4</b>	<b>94.2</b>	<b>1.7</b>	<b>21.3</b>
<b>1985</b> .....	<b>256.9</b>	<b>0.7</b>	<b>7.6</b>	<b>29.2</b>	<b>2.4</b>	<b>2.7</b>	<b>43.3</b>	<b>53.9</b>	<b>97.3</b>	<b>1.2</b>	<b>19.9</b>
<b>1986</b> .....	<b>257.2</b>	<b>0.7</b>	<b>9.2</b>	<b>26.3</b>	<b>2.4</b>	<b>2.5</b>	<b>46.4</b>	<b>53.8</b>	<b>100.3</b>	<b>1.2</b>	<b>18.6</b>
<b>1987</b> .....	<b>257.2</b>	<b>0.8</b>	<b>10.1</b>	<b>27.0</b>	<b>2.3</b>	<b>2.0</b>	<b>44.3</b>	<b>49.3</b>	<b>93.6</b>	<b>1.5</b>	<b>16.9</b>
<b>1988</b> .....	<b>263.7</b>	<b>0.7</b>	<b>10.0</b>	<b>27.7</b>	<b>2.7</b>	<b>2.6</b>	<b>47.8</b>	<b>50.1</b>	<b>97.9</b>	<b>1.2</b>	<b>18.9</b>
<b>1989</b> .....	<b>260.7</b>	<b>0.7</b>	<b>8.6</b>	<b>25.9</b>	<b>2.7</b>	<b>2.7</b>	<b>50.7</b>	<b>46.7</b>	<b>97.5</b>	<b>1.2</b>	<b>21.0</b>
<b>1990</b> .....	<b>264.8</b>	<b>0.7</b>	<b>8.8</b>	<b>25.5</b>	<b>2.2</b>	<b>2.4</b>	<b>51.9</b>	<b>45.9</b>	<b>97.8</b>	<b>0.8</b>	<b>17.9</b>
<b>1991</b> .....	<b>261.3</b>	<b>0.7</b>	<b>8.7</b>	<b>25.4</b>	<b>2.1</b>	<b>2.4</b>	<b>51.5</b>	<b>46.9</b>	<b>98.3</b>	<b>0.4</b>	<b>17.8</b>
<b>1992</b> .....	<b>265.4</b>	<b>0.7</b>	<b>8.0</b>	<b>26.7</b>	<b>2.2</b>	<b>2.3</b>	<b>50.8</b>	<b>48.9</b>	<b>99.7</b>	<b>0.4</b>	<b>15.2</b>
<b>1993</b> .....	<b>266.9</b>	<b>0.6</b>	<b>8.3</b>	<b>27.9</b>	<b>2.3</b>	<b>2.3</b>	<b>58.0</b>	<b>43.6</b>	<b>101.7</b>	<b>0.4</b>	<b>12.6</b>
<b>1994</b> .....	<b>276.7</b>	<b>0.7</b>	<b>9.1</b>	<b>28.4</b>	<b>2.5</b>	<b>1.9</b>	<b>72.4</b>	<b>32.9</b>	<b>105.3</b>	<b>0.4</b>	<b>12.8</b>
<b>1995</b>											
January .....	262.3	0.4	8.8	38.3	4.5	3.7	65.2	39.1	104.3	0.7	18.0
February .....	276.3	0.5	9.1	43.8	4.9	3.0	67.8	44.5	112.3	0.6	17.7
March .....	281.9	0.6	8.8	29.6	2.0	1.5	72.0	34.7	106.7	0.5	14.5
April .....	278.2	0.6	8.8	24.0	1.0	0.5	74.2	31.6	105.8	0.2	10.5
May .....	291.4	0.7	9.4	22.7	0.6	0.4	75.5	24.8	100.3	0.2	11.0
June .....	303.7	0.7	9.1	23.8	0.7	0.4	82.5	25.7	108.2	0.1	11.3
July .....	294.1	0.8	9.6	24.1	0.7	0.3	75.4	22.3	97.7	0.2	11.8
August .....	305.4	0.8	10.0	27.0	1.1	0.7	81.8	22.2	104.0	0.1	12.5
September .....	294.6	0.7	10.2	28.0	1.8	1.0	82.1	24.4	106.6	0.3	13.4
October .....	290.5	0.6	11.1	29.7	2.0	1.6	85.0	25.6	110.7	0.1	12.1
November .....	294.7	0.5	11.4	35.2	3.9	3.7	77.7	33.4	111.1	0.6	12.5
December .....	291.7	0.4	12.7	41.6	5.6	3.9	71.5	44.4	115.8	0.6	18.4
<b>1995</b> .....	<b>288.8</b>	<b>0.6</b>	<b>9.9</b>	<b>30.6</b>	<b>2.4</b>	<b>1.7</b>	<b>75.9</b>	<b>31.0</b>	<b>106.9</b>	<b>0.3</b>	<b>13.6</b>
<b>1996</b>											
January .....	264.5	0.4	12.7	44.2	6.2	4.3	72.7	46.4	119.1	0.5	16.7
February .....	283.4	0.5	13.2	40.8	5.9	3.5	78.3	45.4	123.7	0.5	15.0
March .....	280.3	0.5	11.8	32.1	3.1	1.3	82.4	37.0	119.4	0.5	16.7
April .....	299.7	0.6	12.4	27.3	1.4	0.4	89.1	31.2	120.3	0.3	13.5
May .....	301.4	0.7	11.2	22.2	0.9	0.2	85.6	24.9	110.5	0.2	12.7
June .....	306.8	0.7	10.0	23.1	0.6	0.3	83.8	25.9	109.6	0.1	14.1
July .....	310.4	0.8	11.1	25.0	0.7	0.3	86.6	22.8	109.4	0.2	14.1
August .....	306.9	0.9	11.7	30.2	1.1	0.4	87.4	23.9	111.3	0.1	15.6
September .....	286.4	0.7	10.0	30.4	2.0	0.9	85.2	26.8	112.0	0.2	11.8
October .....	293.7	0.6	11.2	35.3	2.9	1.9	92.2	33.1	125.2	0.2	11.2
November .....	292.6	0.5	10.3	41.0	3.4	3.6	80.7	38.3	119.1	0.3	11.3
December .....	297.0	0.4	12.8	43.2	4.1	4.1	79.8	42.3	122.1	0.5	12.3
<b>1996</b> .....	<b>293.6</b>	<b>0.6</b>	<b>11.5</b>	<b>32.9</b>	<b>2.7</b>	<b>1.8</b>	<b>83.7</b>	<b>33.1</b>	<b>116.8</b>	<b>0.3</b>	<b>13.8</b>
<b>1997</b>											
January .....	275.8	0.4	11.1	44.6	5.3	4.4	81.6	46.3	127.8	0.5	13.8
February .....	288.4	0.5	10.0	38.4	3.4	2.7	79.4	42.3	121.7	0.4	13.5
March .....	289.8	0.5	10.3	28.1	2.0	1.1	85.0	35.7	120.7	0.3	9.5
April .....	293.1	0.6	9.7	25.8	1.3	0.4	91.1	29.9	121.0	0.3	10.5
May .....	300.3	0.7	10.2	24.8	1.0	0.3	90.4	26.1	116.4	0.1	8.0
June .....	296.9	0.8	11.2	24.4	0.8	0.4	94.0	28.0	122.0	0.2	10.9
July .....	306.7	0.8	11.3	26.5	1.4	0.4	92.3	23.9	116.1	0.1	11.1
August .....	304.0	0.8	12.0	28.7	1.2	0.4	87.5	25.0	112.5	0.2	12.3
September .....	290.8	0.7	10.5	32.5	2.0	0.9	94.4	27.0	121.4	0.1	11.3

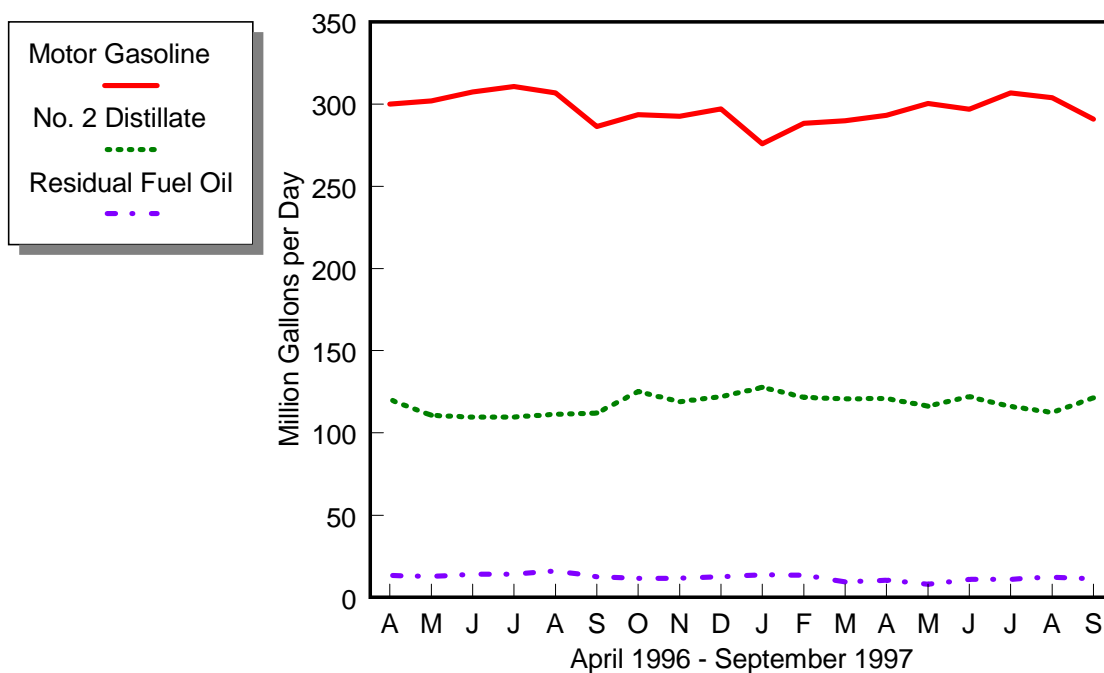
<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

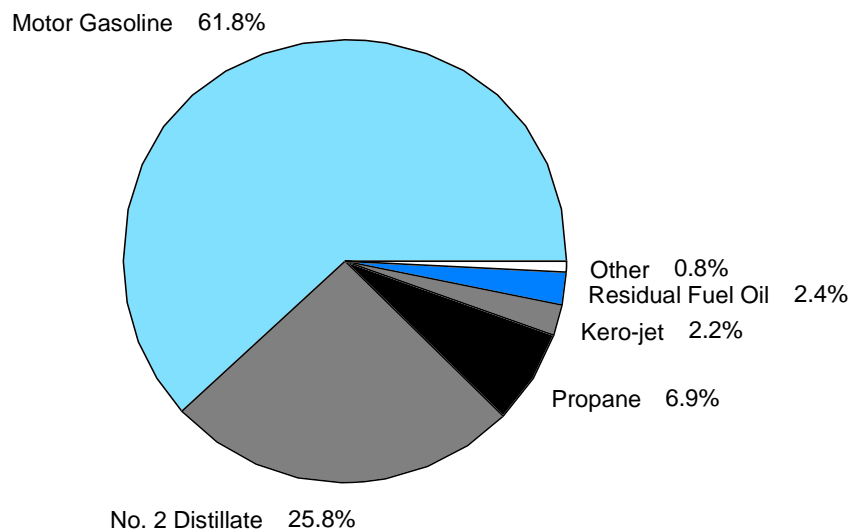
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Figure 5. U.S. Refiner Wholesale Petroleum Product Volumes



Percentages of Refiner Wholesale Volumes



Source: Energy Information Administration, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 6. U.S. Refiner Motor Gasoline Prices by Grade and Sales Type**  
(Cents per Gallon Excluding Taxes)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>1983</b> .....	<b>98.0</b>	<b>97.0</b>	—	—	—	<b>89.5</b>	—	—	—	—	—	—
<b>1984</b> .....	<b>92.2</b>	<b>91.4</b>	—	—	—	<b>84.2</b>	—	—	—	—	—	—
<b>1985</b> .....	<b>92.5</b>	<b>91.7</b>	—	—	—	<b>84.3</b>	—	—	—	—	—	—
<b>1986</b> .....	<b>62.4</b>	<b>61.6</b>	—	—	—	<b>52.2</b>	—	—	—	—	—	—
<b>1987</b> .....	<b>65.9</b>	<b>65.0</b>	—	—	—	<b>56.9</b>	—	—	—	—	—	—
<b>1988</b> .....	<b>64.9</b>	<b>64.1</b>	—	—	—	<b>54.8</b>	—	—	—	—	—	—
<b>1989</b> .....	<b>72.0</b>	<b>71.4</b>	—	—	—	<b>61.8</b>	<b>79.6</b>	<b>79.3</b>	—	—	—	<b>68.6</b>
<b>1990</b> .....	<b>85.3</b>	<b>84.9</b>	—	—	—	<b>75.8</b>	<b>92.3</b>	<b>92.1</b>	—	—	—	<b>81.4</b>
<b>1991</b> .....	<b>76.4</b>	<b>76.1</b>	—	—	—	<b>67.2</b>	<b>84.7</b>	<b>84.3</b>	—	—	—	<b>73.3</b>
<b>1992</b> .....	<b>74.6</b>	<b>74.3</b>	—	—	—	<b>64.5</b>	<b>83.1</b>	<b>82.7</b>	—	—	—	<b>70.8</b>
<b>1993</b> .....	<b>71.6</b>	<b>71.2</b>	—	—	—	<b>59.3</b>	<b>81.0</b>	<b>80.5</b>	—	—	—	<b>66.0</b>
<b>1994</b> .....	<b>69.5</b>	<b>68.9</b>	<b>64.6</b>	<b>54.7</b>	<b>50.2</b>	<b>56.6</b>	<b>79.1</b>	<b>78.5</b>	<b>70.4</b>	<b>58.4</b>	<b>NA</b>	<b>63.8</b>
<b>1995</b>												
January .....	69.9	69.3	67.6	53.9	49.8	56.4	80.0	79.3	73.5	58.6	W	65.2
February .....	68.9	68.3	66.4	54.6	51.0	56.7	78.6	78.1	72.3	59.2	W	65.0
March .....	68.8	68.2	65.6	54.9	51.3	56.7	78.1	77.5	71.5	58.9	W	64.3
April .....	72.9	72.5	68.9	62.5	57.4	63.2	82.1	81.6	74.9	66.9	W	70.4
May .....	79.3	78.9	74.5	67.9	62.6	68.6	88.3	87.8	80.4	72.7	W	76.0
June .....	80.0	79.4	74.9	62.9	58.9	64.8	89.0	88.4	80.9	67.5	W	73.2
July .....	76.0	75.4	71.3	56.8	53.7	59.4	85.2	84.6	76.7	60.9	W	67.7
August .....	72.8	72.2	67.9	57.2	53.2	58.8	81.7	81.1	72.8	61.2	NA	66.1
September .....	71.7	71.2	66.9	58.1	53.9	59.2	80.1	79.7	71.7	61.9	W	66.2
October .....	69.2	68.6	65.6	53.3	50.2	55.4	78.3	77.8	70.7	57.5	—	63.2
November .....	67.4	66.8	63.7	53.3	48.9	54.7	76.8	76.3	69.0	57.3	—	62.4
December .....	68.6	68.1	64.6	55.3	50.8	56.5	77.7	77.3	69.9	59.6	—	64.2
<b>1995</b> .....	<b>72.3</b>	<b>71.7</b>	<b>68.2</b>	<b>57.6</b>	<b>53.4</b>	<b>59.3</b>	<b>81.3</b>	<b>80.8</b>	<b>73.7</b>	<b>61.9</b>	<b>NA</b>	<b>67.0</b>
<b>1996</b>												
January .....	70.5	69.9	66.3	55.9	52.2	57.7	79.6	79.1	71.7	60.3	—	65.4
February .....	70.5	70.0	66.4	57.0	53.0	58.4	79.8	79.3	72.2	61.1	—	66.1
March .....	75.8	75.3	70.9	64.0	59.3	64.9	84.7	84.3	77.0	67.9	W	72.0
April .....	84.5	83.9	81.0	72.4	66.6	73.2	93.7	93.2	87.0	76.9	—	81.3
May .....	89.3	88.8	88.0	72.7	68.0	75.2	99.1	98.6	93.7	77.0	—	84.2
June .....	86.9	86.3	85.2	67.4	61.6	70.0	96.5	95.9	91.0	70.6	—	79.4
July .....	83.9	83.4	81.9	67.3	62.0	69.4	93.4	93.0	87.6	71.2	—	78.1
August .....	81.2	80.7	78.0	66.7	61.5	68.3	90.6	90.2	83.7	70.5	NA	76.1
September .....	80.8	80.4	76.4	67.7	62.4	68.8	89.8	89.4	82.1	71.5	W	76.1
October .....	80.9	80.4	75.7	69.7	63.4	70.1	90.1	89.7	81.5	73.7	W	77.1
November .....	83.4	82.9	75.7	72.1	65.7	71.9	92.2	91.7	81.3	75.6	W	78.1
December .....	82.5	82.0	75.4	70.1	65.7	70.4	91.6	91.2	81.3	74.4	NA	77.4
<b>1996</b> .....	<b>81.2</b>	<b>80.7</b>	<b>77.0</b>	<b>67.2</b>	<b>62.2</b>	<b>68.5</b>	<b>90.1</b>	<b>89.6</b>	<b>82.4</b>	<b>70.9</b>	<b>NA</b>	<b>75.9</b>
<b>1997</b>												
January .....	83.1	82.6	77.2	71.7	68.1	72.3	92.4	92.0	82.6	75.7	W	78.8
February .....	82.7	82.1	77.7	69.2	66.0	70.5	92.0	91.6	83.0	73.1	W	77.5
March .....	80.8	80.3	77.0	66.9	64.9	68.8	90.3	89.9	82.4	71.0	NA	76.1
April .....	80.3	79.7	77.7	65.5	62.4	67.7	89.9	89.6	82.9	69.6	W	75.4
May .....	81.0	80.5	76.5	67.6	61.8	68.5	90.3	89.9	82.3	70.8	NA	75.7
June .....	79.7	79.2	74.9	63.9	58.8	65.5	89.1	88.7	80.8	67.2	W	72.9
July .....	77.9	77.4	72.3	63.9	57.9	64.8	87.4	86.9	78.4	67.5	W	72.0
August .....	83.2	82.8	79.2	71.5	66.1	72.3	92.6	92.3	85.4	75.3	W	79.5
September .....	83.7	83.1	81.2	67.2	63.5	69.5	93.2	92.9	87.4	71.0	W	77.9

See footnotes at end of table.

**Table 6. U.S. Refiner Motor Gasoline Prices by Grade and Sales Type**  
(Cents per Gallon Excluding Taxes) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>1983</b> .....	<b>108.0</b>	<b>105.7</b>	—	—	—	<b>96.4</b>	<b>96.4</b>	<b>95.4</b>	—	—	—	<b>88.2</b>
<b>1984</b> .....	<b>102.1</b>	<b>101.5</b>	—	—	—	<b>91.6</b>	<b>91.4</b>	<b>90.7</b>	—	—	—	<b>83.2</b>
<b>1985</b> .....	<b>103.0</b>	<b>102.3</b>	—	—	—	<b>92.2</b>	<b>92.1</b>	<b>91.2</b>	—	—	—	<b>83.5</b>
<b>1986</b> .....	<b>74.8</b>	<b>73.7</b>	—	—	—	<b>61.0</b>	<b>63.2</b>	<b>62.4</b>	—	—	—	<b>53.1</b>
<b>1987</b> .....	<b>79.0</b>	<b>78.4</b>	—	—	—	<b>67.1</b>	<b>67.8</b>	<b>66.9</b>	—	—	—	<b>58.9</b>
<b>1988</b> .....	<b>79.4</b>	<b>78.8</b>	—	—	—	<b>67.2</b>	<b>68.1</b>	<b>67.3</b>	—	—	—	<b>57.7</b>
<b>1989</b> .....	<b>87.4</b>	<b>86.8</b>	—	—	—	<b>74.9</b>	<b>76.3</b>	<b>75.6</b>	—	—	—	<b>65.4</b>
<b>1990</b> .....	<b>99.0</b>	<b>98.5</b>	—	—	—	<b>87.4</b>	<b>88.8</b>	<b>88.3</b>	—	—	—	<b>78.6</b>
<b>1991</b> .....	<b>91.2</b>	<b>90.7</b>	—	—	—	<b>79.2</b>	<b>80.0</b>	<b>79.7</b>	—	—	—	<b>69.9</b>
<b>1992</b> .....	<b>92.0</b>	<b>91.4</b>	—	—	—	<b>77.4</b>	<b>79.2</b>	<b>78.7</b>	—	—	—	<b>67.7</b>
<b>1993</b> .....	<b>89.6</b>	<b>88.9</b>	—	—	—	<b>72.2</b>	<b>76.5</b>	<b>75.9</b>	—	—	—	<b>62.6</b>
<b>1994</b> .....	<b>87.3</b>	<b>86.5</b>	<b>78.7</b>	<b>64.0</b>	<b>55.6</b>	<b>69.5</b>	<b>74.4</b>	<b>73.8</b>	<b>69.3</b>	<b>56.7</b>	<b>50.9</b>	<b>59.9</b>
<b>1995</b>												
January .....	88.9	88.1	82.1	63.7	54.9	70.0	75.2	74.5	72.5	56.2	50.4	60.0
February .....	87.6	86.8	81.1	64.5	55.2	70.2	74.1	73.3	71.3	56.8	51.5	60.3
March .....	84.4	83.8	80.3	64.2	55.1	69.7	73.7	73.1	70.5	57.0	51.7	60.0
April .....	90.7	90.0	83.3	72.3	63.6	75.9	77.8	77.3	73.8	64.7	58.1	66.5
May .....	97.1	96.4	89.0	78.3	68.6	81.7	83.9	83.4	79.3	70.2	63.2	71.8
June .....	97.4	96.6	89.8	73.1	63.8	78.6	84.5	83.9	79.8	65.1	59.4	68.2
July .....	93.7	92.9	85.9	66.7	57.9	73.1	80.7	80.0	76.0	58.9	54.2	62.9
August .....	90.5	89.8	81.8	67.0	58.7	71.7	77.6	76.9	72.4	59.3	53.8	62.0
September .....	89.3	88.6	80.6	67.7	58.4	71.6	76.4	75.8	71.4	60.2	54.5	62.3
October .....	87.0	86.3	79.0	62.8	54.4	68.1	74.1	73.5	70.1	55.4	50.8	58.8
November .....	85.1	84.3	76.8	62.6	54.3	67.0	72.4	71.8	68.2	55.4	49.6	58.0
December .....	86.2	85.6	77.8	64.9	57.6	68.9	73.6	73.0	69.1	57.5	51.7	59.9
<b>1995</b> .....	<b>89.7</b>	<b>89.0</b>	<b>82.2</b>	<b>67.3</b>	<b>58.3</b>	<b>72.2</b>	<b>77.1</b>	<b>76.5</b>	<b>72.9</b>	<b>59.8</b>	<b>54.0</b>	<b>62.6</b>
<b>1996</b>												
January .....	88.3	87.5	79.5	65.7	57.2	70.1	75.4	74.8	70.8	58.1	52.9	61.0
February .....	88.4	87.7	80.0	66.6	57.2	70.6	75.5	74.9	71.0	59.1	53.6	61.6
March .....	93.3	92.6	84.6	73.3	63.9	76.9	80.4	79.8	75.4	66.0	59.8	67.9
April .....	102.1	101.3	93.8	81.9	74.9	85.8	88.8	88.1	85.0	74.3	67.3	76.1
May .....	106.6	105.7	100.3	82.1	74.0	87.9	93.3	92.7	91.5	74.5	68.5	78.0
June .....	103.9	103.0	97.7	76.1	66.9	83.0	91.0	90.3	88.9	69.0	62.1	73.0
July .....	101.1	100.3	94.5	76.7	68.0	82.1	88.0	87.5	85.6	69.2	62.5	72.3
August .....	98.3	97.6	90.9	75.9	65.2	80.3	85.4	84.9	81.8	68.5	61.8	71.1
September .....	98.0	97.3	89.4	77.0	68.1	80.9	84.9	84.4	80.3	69.5	63.1	71.6
October .....	98.2	97.5	89.4	79.2	68.7	82.0	85.0	84.4	79.8	71.5	64.1	72.8
November .....	100.4	99.7	89.7	81.7	71.1	83.9	87.3	86.8	79.8	73.9	66.1	74.5
December .....	100.2	99.5	89.5	80.1	70.8	82.4	86.5	86.0	79.5	72.0	66.3	73.1
<b>1996</b> .....	<b>97.9</b>	<b>97.2</b>	<b>89.7</b>	<b>76.2</b>	<b>66.9</b>	<b>80.3</b>	<b>85.3</b>	<b>84.7</b>	<b>80.9</b>	<b>69.0</b>	<b>62.7</b>	<b>71.3</b>
<b>1997</b>												
January .....	100.9	100.2	90.8	81.4	72.5	84.2	87.2	86.6	81.0	73.5	68.4	74.8
February .....	100.4	99.7	90.8	78.6	69.3	82.7	86.7	86.1	81.4	71.0	66.2	73.1
March .....	98.5	97.8	90.1	76.3	68.3	80.7	84.9	84.3	80.8	68.7	65.3	71.5
April .....	97.9	97.5	90.1	75.0	66.5	79.7	84.4	83.9	81.3	67.4	62.9	70.4
May .....	97.9	97.3	89.1	76.8	67.7	80.4	85.0	84.5	80.3	69.4	62.3	71.1
June .....	96.8	96.1	87.8	73.1	64.9	77.4	83.8	83.3	78.8	65.6	59.6	68.3
July .....	95.5	94.8	85.8	73.5	63.6	77.1	82.0	81.5	76.4	65.8	58.4	67.5
August .....	100.8	100.3	92.8	81.3	73.8	84.5	87.2	86.8	83.2	73.3	66.9	75.0
September .....	101.5	101.2	94.4	76.7	68.9	82.0	87.7	87.2	85.1	68.9	64.0	72.3

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Notes: Data for the 4th quarter of 1993 were derived from two separate survey systems. The DTW, Rack, and Bulk components were derived from the revised EIA-782 survey system, while the End-Use and Average Resale categories were derived from the predecessor EIA-782 survey system. Therefore, the DTW, Rack, and Bulk components are not consistent with the Average Resale category. Beginning January 1994, all data are from the revised EIA-782 survey system and are consistent.

Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 7. U.S. Refiner Motor Gasoline Volumes by Grade and Sales Type**  
(Million Gallons per Day)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>1983</b> .....	20.0	23.5	—	—	—	98.3	—	—	—	—	—	—
<b>1984</b> .....	24.3	27.8	—	—	—	106.8	—	—	—	—	—	—
<b>1985</b> .....	26.2	29.9	—	—	—	119.7	—	—	—	—	—	—
<b>1986</b> .....	30.9	34.7	—	—	—	127.0	—	—	—	—	—	—
<b>1987</b> .....	32.7	36.1	—	—	—	141.9	—	—	—	—	—	—
<b>1988</b> .....	34.2	37.3	—	—	—	153.6	—	—	—	—	—	—
<b>1989</b> .....	34.3	36.8	—	—	—	155.7	4.9	5.1	—	—	—	16.4
<b>1990</b> .....	36.7	38.8	—	—	—	174.5	7.4	7.6	—	—	—	23.1
<b>1991</b> .....	38.4	40.4	—	—	—	180.9	7.9	8.2	—	—	—	23.7
<b>1992</b> .....	36.5	38.4	—	—	—	182.2	8.9	9.2	—	—	—	27.5
<b>1993</b> .....	35.6	37.2	—	—	—	184.0	8.7	8.9	—	—	—	27.7
<b>1994</b> .....	34.3	35.9	47.7	120.3	24.3	192.3	8.5	8.7	12.8	15.7	0.2	28.7
<b>1995</b>												
January .....	31.3	32.8	41.4	112.7	28.1	182.3	8.7	9.0	W	15.2	W	27.5
February .....	33.1	34.8	43.5	120.1	28.7	192.3	9.2	9.5	W	16.1	W	29.1
March .....	32.6	34.3	43.6	122.3	30.9	196.9	9.4	9.7	W	16.6	W	29.4
April .....	34.0	35.7	43.9	121.9	27.7	193.5	9.4	9.7	W	16.5	W	29.6
May .....	35.5	37.0	45.0	130.3	30.2	205.6	9.4	9.7	W	17.4	W	30.8
June .....	36.9	38.5	46.0	135.9	34.0	215.9	9.8	10.1	W	18.0	W	31.8
July .....	35.6	37.1	44.4	131.5	31.4	207.3	9.5	9.8	W	17.8	W	31.4
August .....	36.2	37.8	45.0	135.4	34.1	214.4	9.8	10.1	13.7	18.5	NA	32.4
September .....	34.8	36.3	43.4	127.3	35.9	206.6	9.8	10.0	W	17.1	W	30.5
October .....	34.1	35.7	43.3	127.2	31.4	201.9	9.5	9.8	13.5	17.6	—	31.1
November .....	33.8	35.4	43.3	125.9	34.3	203.6	9.9	10.1	13.8	18.0	—	31.8
December .....	34.0	35.6	43.4	123.2	34.3	200.9	10.3	10.5	13.9	17.4	—	31.3
<b>1995</b> .....	34.3	35.9	43.8	126.2	31.8	201.8	9.6	9.8	13.3	17.2	0.1	30.6
<b>1996</b>												
January .....	32.2	33.7	41.0	115.8	25.9	182.7	9.5	9.8	12.9	16.0	—	28.9
February .....	33.1	34.7	42.8	121.9	32.1	196.8	9.7	10.0	13.6	16.9	—	30.5
March .....	35.0	36.7	45.1	122.5	28.8	196.4	10.0	10.3	13.7	17.0	W	30.7
April .....	36.6	38.7	46.9	132.1	39.8	218.8	9.6	9.9	13.4	17.0	—	30.4
May .....	38.5	40.3	48.7	137.8	38.8	225.2	9.2	9.5	12.6	16.5	—	29.2
June .....	39.3	41.0	48.1	137.3	43.1	228.6	9.6	9.8	12.6	16.6	—	29.3
July .....	38.6	40.4	47.3	141.2	40.8	229.4	9.5	9.8	12.6	17.4	—	29.9
August .....	38.8	40.7	48.0	141.8	35.2	225.0	9.6	10.0	12.7	17.3	NA	30.1
September .....	37.9	39.6	46.6	131.4	31.5	209.5	9.4	9.6	12.4	15.9	W	28.4
October .....	38.3	40.2	48.0	134.8	32.0	214.8	9.4	9.7	12.7	16.4	W	29.1
November .....	38.3	40.2	48.2	133.6	33.9	215.7	9.4	9.7	12.8	16.3	W	29.2
December .....	39.1	41.1	47.1	132.0	40.2	219.4	9.6	9.8	12.6	16.0	NA	28.7
<b>1996</b> .....	37.2	38.9	46.5	131.9	35.2	213.6	9.5	9.8	12.9	16.6	NA	29.5
<b>1997</b>												
January .....	36.0	38.0	45.9	123.3	35.5	204.6	8.8	9.1	W	15.0	W	26.9
February .....	38.4	40.5	48.0	128.4	39.1	215.4	9.2	9.5	W	15.5	W	28.0
March .....	39.1	41.2	48.0	130.7	35.8	214.5	9.4	9.7	12.4	15.6	0.0	28.0
April .....	38.5	40.7	47.7	134.5	34.0	216.2	9.3	9.6	W	16.1	W	28.3
May .....	38.2	40.0	45.9	138.2	38.1	222.2	9.2	9.5	12.2	16.4	0.0	28.6
June .....	39.4	41.1	46.1	140.2	30.8	217.1	9.5	9.8	W	16.7	W	29.0
July .....	43.3	45.0	45.7	146.8	32.5	224.9	10.4	10.7	W	17.9	W	30.3
August .....	43.5	45.2	46.3	144.4	33.8	224.6	10.3	10.6	W	17.2	W	29.4
September .....	42.7	44.6	45.2	137.5	33.8	216.4	10.0	10.2	W	16.2	W	27.8

See footnotes at end of table.

**Table 7. U.S. Refiner Motor Gasoline Volumes by Grade and Sales Type**

(Million Gallons per Day) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>1983</b> .....	5.0	6.2	—	—	—	28.7	42.3	51.1	—	—	—	242.5
<b>1984</b> .....	8.5	9.2	—	—	—	33.7	50.3	57.6	—	—	—	246.3
<b>1985</b> .....	9.2	10.0	—	—	—	38.0	50.5	57.5	—	—	—	256.9
<b>1986</b> .....	9.0	9.8	—	—	—	45.1	54.2	61.2	—	—	—	257.2
<b>1987</b> .....	11.2	11.6	—	—	—	53.0	55.7	61.0	—	—	—	257.2
<b>1988</b> .....	13.8	14.5	—	—	—	62.4	56.7	61.0	—	—	—	263.7
<b>1989</b> .....	13.5	14.2	—	—	—	60.8	57.5	61.2	—	—	—	260.7
<b>1990</b> .....	11.2	11.7	—	—	—	53.7	57.4	60.3	—	—	—	264.8
<b>1991</b> .....	10.5	10.9	—	—	—	48.3	58.4	61.2	—	—	—	261.3
<b>1992</b> .....	10.3	10.7	—	—	—	51.7	56.4	59.0	—	—	—	265.4
<b>1993</b> .....	10.3	10.6	—	—	—	52.8	54.9	57.2	—	—	—	266.9
<b>1994</b> .....	10.0	10.3	22.6	29.9	3.2	55.7	52.8	55.0	83.1	165.9	27.7	276.7
<b>1995</b>												
January .....	9.0	9.4	W	29.1	W	52.5	49.1	51.2	73.5	157.1	31.7	262.3
February .....	9.5	9.8	W	30.3	W	54.8	51.7	54.1	77.4	166.5	32.3	276.3
March .....	11.2	11.6	W	31.5	W	55.6	53.2	55.6	77.1	170.4	34.4	281.9
April .....	9.7	10.1	W	31.0	W	55.2	53.2	55.5	77.6	169.4	31.2	278.2
May .....	9.2	9.5	W	31.1	W	55.0	54.1	56.2	78.8	178.8	33.8	291.4
June .....	9.6	10.0	W	31.6	W	56.0	56.3	58.5	80.2	185.5	38.0	303.7
July .....	9.7	10.1	W	31.3	W	55.4	54.9	56.9	78.1	180.6	35.3	294.1
August .....	10.1	10.4	21.0	33.2	4.4	58.6	56.1	58.3	79.7	187.0	38.7	305.4
September .....	9.9	10.2	W	31.3	W	57.4	54.5	56.6	77.7	175.6	41.2	294.6
October .....	9.8	10.1	21.0	31.9	4.6	57.5	53.4	55.6	77.8	176.8	36.0	290.5
November .....	10.0	10.4	21.6	32.6	5.1	59.3	53.7	55.9	78.6	176.6	39.4	294.7
December .....	10.0	10.4	21.4	32.6	5.6	59.5	54.3	56.5	78.8	173.1	39.8	291.7
<b>1995</b> .....	<b>9.8</b>	<b>10.2</b>	<b>20.8</b>	<b>31.5</b>	<b>4.2</b>	<b>56.4</b>	<b>53.7</b>	<b>55.9</b>	<b>77.9</b>	<b>174.8</b>	<b>36.0</b>	<b>288.8</b>
<b>1996</b>												
January .....	9.2	9.5	19.4	29.3	4.2	52.9	50.9	53.0	73.3	161.0	30.1	264.5
February .....	9.5	9.8	20.4	30.6	5.1	56.1	52.3	54.6	76.8	169.4	37.2	283.4
March .....	9.1	9.4	19.9	29.6	3.6	53.2	54.1	56.4	78.7	169.1	32.5	280.3
April .....	8.3	8.6	18.5	28.4	3.6	50.5	54.5	57.2	78.7	177.5	43.4	299.7
May .....	7.6	8.0	16.6	26.6	3.7	47.0	55.4	57.8	77.9	181.0	42.5	301.4
June .....	8.1	8.4	17.3	27.6	4.1	49.0	56.9	59.2	78.1	181.5	47.2	306.8
July .....	8.3	8.7	17.4	29.9	3.8	51.1	56.4	58.9	77.4	188.4	44.6	310.4
August .....	8.6	9.0	18.0	30.0	3.8	51.8	57.1	59.7	78.8	189.0	39.1	306.9
September .....	8.2	8.6	17.6	27.1	3.7	48.5	55.5	57.8	76.6	174.5	35.3	286.4
October .....	8.2	8.5	17.8	27.7	4.2	49.8	55.9	58.5	78.5	178.9	36.2	293.7
November .....	7.9	8.2	17.7	26.6	3.3	47.6	55.6	58.1	78.8	176.5	37.2	292.6
December .....	8.0	8.3	17.2	26.2	5.5	48.9	56.7	59.2	76.9	174.2	45.8	297.0
<b>1996</b> .....	<b>8.4</b>	<b>8.8</b>	<b>18.2</b>	<b>28.3</b>	<b>4.1</b>	<b>50.5</b>	<b>55.1</b>	<b>57.5</b>	<b>77.5</b>	<b>176.8</b>	<b>39.3</b>	<b>293.6</b>
<b>1997</b>												
January .....	7.4	7.8	W	24.6	W	44.2	52.2	54.8	74.2	162.8	38.7	275.8
February .....	7.7	8.1	W	25.3	W	45.0	55.3	58.0	77.5	169.2	41.7	288.4
March .....	8.1	8.4	17.4	26.1	3.8	47.4	56.6	59.3	77.7	172.4	39.7	289.8
April .....	8.1	8.5	W	27.5	W	48.7	55.8	58.9	77.1	178.1	37.9	293.1
May .....	8.2	8.6	17.2	28.7	3.6	49.5	55.5	58.2	75.3	183.3	41.8	300.3
June .....	8.6	9.0	W	29.0	W	50.8	57.5	60.0	75.8	185.9	35.2	296.9
July .....	9.3	9.8	W	31.1	W	51.5	63.0	65.4	75.4	195.8	35.6	306.7
August .....	8.7	9.2	W	29.3	W	50.0	62.5	64.9	75.2	190.9	37.9	304.0
September .....	8.5	8.9	W	27.2	W	46.5	61.1	63.7	72.5	180.8	37.5	290.8

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Notes: Data for the 4th quarter of 1993 were derived from two separate survey systems. The DTW, Rack, and Bulk components were derived from the revised EIA-782 survey system, while the End-Use and Average Resale categories were derived from the predecessor EIA-782 survey system. Therefore, the DTW, Rack, and Bulk components are not consistent with the Average Resale category. Beginning January 1994, all data are from the revised EIA-782 survey system and are consistent.

Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*. Totals may not equal the sum of the components due to rounding.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."



**Table 8. U.S. Refiner Conventional Motor Gasoline Prices by Grade and Sales Type**  
(Cents per Gallon Excluding Taxes)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>1994</b> .....	<b>68.7</b>	<b>68.1</b>	<b>63.6</b>	<b>54.5</b>	<b>50.0</b>	<b>55.8</b>	<b>78.4</b>	<b>77.8</b>	<b>69.4</b>	<b>NA</b>	<b>NA</b>	<b>62.7</b>
<b>1995</b>												
January .....	65.7	65.0	59.5	52.3	48.2	52.4	75.7	74.9	66.3	56.8	W	59.2
February .....	65.7	65.1	60.6	53.4	49.6	53.7	75.4	74.7	67.4	57.9	W	60.6
March .....	66.8	66.2	61.0	54.3	50.7	54.6	76.1	75.4	67.4	58.1	W	60.7
April .....	72.2	71.7	66.3	62.2	57.0	62.0	81.2	80.7	72.8	66.6	W	68.4
May .....	78.8	78.3	72.5	67.6	62.1	67.4	88.0	87.4	79.2	72.4	W	74.3
June .....	79.2	78.6	72.5	62.3	58.5	63.1	88.3	87.6	79.5	66.7	W	70.3
July .....	74.9	74.2	68.4	56.3	52.8	57.4	84.0	83.3	74.7	60.0	W	64.2
August .....	71.9	71.3	65.5	56.8	52.1	57.2	80.8	80.2	71.1	60.6	NA	63.5
September .....	71.1	70.6	65.1	57.6	52.5	57.7	79.8	79.3	70.5	61.2	W	63.9
October .....	67.2	66.6	60.7	52.2	49.3	52.6	76.9	76.2	66.7	56.1	—	58.6
November .....	64.6	64.0	58.3	52.1	47.7	51.9	74.0	73.4	64.0	55.9	—	57.7
December .....	66.5	65.9	60.4	54.1	49.4	53.7	75.7	75.1	66.2	58.1	—	60.0
<b>1995</b> .....	<b>71.0</b>	<b>70.4</b>	<b>65.1</b>	<b>57.0</b>	<b>52.5</b>	<b>57.3</b>	<b>80.0</b>	<b>79.4</b>	<b>71.1</b>	<b>61.0</b>	<b>NA</b>	<b>63.7</b>
<b>1996</b>												
January .....	68.4	67.8	61.8	54.9	51.4	55.0	77.5	76.9	68.0	59.1	—	61.2
February .....	68.5	67.9	63.4	56.2	52.1	56.4	77.9	77.3	69.7	60.2	—	62.9
March .....	74.7	74.1	69.1	63.5	57.8	63.5	83.7	83.2	75.4	67.3	W	69.7
April .....	82.9	82.2	77.5	71.5	64.0	70.8	92.0	91.4	83.8	75.7	—	77.9
May .....	86.2	85.7	82.1	71.8	65.3	71.9	95.5	95.0	87.7	75.8	—	78.8
June .....	83.6	83.0	79.0	66.6	60.0	66.6	92.6	92.0	84.8	69.3	—	73.2
July .....	81.2	80.7	76.4	66.6	60.1	66.5	90.3	89.8	82.3	70.1	—	73.1
August .....	79.3	78.8	74.3	66.1	60.0	66.1	88.4	87.9	80.6	69.6	W	72.2
September .....	79.9	79.4	74.7	67.1	60.9	67.1	88.7	88.2	81.0	70.7	—	73.3
October .....	79.9	79.4	75.7	69.3	62.6	68.9	89.1	88.5	82.3	73.2	—	75.4
November .....	83.8	83.2	78.2	71.9	65.8	71.6	92.1	91.6	84.2	75.2	—	77.3
December .....	82.8	82.2	76.3	69.5	64.6	69.2	91.5	90.9	83.0	73.7	W	75.8
<b>1996</b> .....	<b>79.7</b>	<b>79.1</b>	<b>74.3</b>	<b>66.5</b>	<b>60.7</b>	<b>66.4</b>	<b>88.4</b>	<b>87.8</b>	<b>80.1</b>	<b>70.0</b>	<b>NA</b>	<b>72.6</b>
<b>1997</b>												
January .....	82.3	81.7	76.2	71.0	66.5	70.7	91.3	90.8	82.4	74.9	—	76.7
February .....	80.8	80.1	74.8	68.6	64.5	68.4	90.1	89.6	81.2	72.3	—	74.5
March .....	78.6	77.9	72.3	66.1	62.7	66.2	88.4	87.9	78.6	70.1	W	72.2
April .....	78.7	77.9	73.1	65.0	60.7	65.2	88.3	87.8	78.8	69.0	—	71.4
May .....	79.7	79.0	73.4	67.4	61.4	66.9	88.7	88.3	79.1	70.3	—	72.5
June .....	78.5	78.0	72.1	63.7	59.0	64.0	87.7	87.3	78.5	66.8	—	69.6
July .....	76.7	76.2	69.6	63.7	57.4	63.4	85.8	85.4	76.1	67.1	—	69.1
August .....	82.1	81.5	75.8	70.8	63.9	70.3	91.1	90.7	81.9	74.4	—	76.1
September .....	80.6	79.9	74.4	66.1	60.8	66.1	89.9	89.5	81.1	69.6	—	72.2

See footnotes at end of table.

**Table 8. U.S. Refiner Conventional Motor Gasoline Prices by Grade and Sales Type**  
(Cents per Gallon Excluding Taxes) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>1994</b> .....	<b>86.3</b>	<b>85.5</b>	<b>77.8</b>	<b>63.8</b>	<b>55.5</b>	<b>68.2</b>	<b>73.6</b>	<b>72.9</b>	<b>68.3</b>	<b>56.5</b>	<b>50.7</b>	<b>58.9</b>
<b>1995</b>												
January .....	84.0	83.0	74.5	62.1	51.9	63.8	70.7	69.9	64.5	54.5	48.5	55.0
February .....	83.6	82.7	75.5	63.2	53.9	65.3	70.5	69.7	65.4	55.5	50.0	56.4
March .....	81.7	81.0	75.6	63.6	53.7	65.8	71.3	70.7	65.5	56.3	51.0	57.2
April .....	89.3	88.5	80.7	72.0	62.6	73.4	76.5	76.0	70.7	64.3	57.6	64.6
May .....	96.3	95.5	87.2	77.8	66.2	79.2	83.0	82.5	76.8	69.8	62.5	70.1
June .....	96.2	95.3	87.5	72.4	62.8	75.0	83.4	82.7	76.9	64.4	58.9	65.7
July .....	91.9	91.0	83.0	66.0	56.9	69.1	79.1	78.4	72.7	58.3	53.2	60.0
August .....	89.0	88.2	79.4	66.5	57.2	68.7	76.2	75.5	69.6	58.8	52.6	59.8
September .....	88.2	87.4	78.7	67.0	56.6	68.6	75.4	74.8	69.1	59.5	53.0	60.1
October .....	84.6	83.8	74.2	61.7	52.1	63.2	71.8	71.1	65.0	54.2	49.5	55.0
November .....	81.7	80.7	71.5	61.3	51.9	62.4	69.2	68.5	62.6	54.1	48.1	54.3
December .....	83.4	82.6	73.6	63.5	55.0	64.3	71.1	70.4	64.7	56.2	50.1	56.2
<b>1995</b> .....	<b>87.7</b>	<b>86.8</b>	<b>79.0</b>	<b>66.5</b>	<b>56.8</b>	<b>68.4</b>	<b>75.3</b>	<b>74.6</b>	<b>69.3</b>	<b>59.0</b>	<b>53.0</b>	<b>59.8</b>
<b>1996</b>												
January .....	85.5	84.6	75.3	64.6	55.6	65.6	72.9	72.2	66.2	57.0	52.0	57.5
February .....	85.9	84.9	77.3	65.8	55.4	67.1	73.1	72.4	67.8	58.2	52.5	58.9
March .....	92.0	91.1	82.8	72.9	61.0	74.3	79.0	78.3	73.2	65.5	58.1	65.9
April .....	100.1	99.2	90.0	81.0	71.1	82.1	86.8	86.0	81.0	73.3	64.4	73.1
May .....	103.3	102.4	94.7	81.1	71.0	83.0	89.9	89.3	85.4	73.5	65.7	74.0
June .....	100.3	99.3	92.0	75.3	64.4	77.8	87.2	86.6	82.4	68.1	60.2	68.7
July .....	98.1	97.2	89.4	75.9	65.9	77.7	85.0	84.4	79.9	68.4	60.4	68.7
August .....	96.2	95.3	87.6	75.2	62.7	76.5	83.1	82.5	77.9	67.8	60.2	68.2
September .....	96.9	95.9	88.2	76.4	65.8	78.0	83.6	83.1	78.4	68.9	61.3	69.2
October .....	96.7	95.8	89.3	78.7	67.4	79.5	83.7	83.1	79.4	71.0	63.1	71.0
November .....	100.2	99.2	91.4	81.3	71.3	82.4	87.2	86.6	81.8	73.6	66.2	73.6
December .....	99.9	98.9	90.4	79.3	69.1	79.8	86.5	85.7	80.2	71.3	65.1	71.3
<b>1996</b> .....	<b>96.0</b>	<b>95.1</b>	<b>86.9</b>	<b>75.5</b>	<b>64.5</b>	<b>76.7</b>	<b>83.4</b>	<b>82.7</b>	<b>77.8</b>	<b>68.2</b>	<b>61.0</b>	<b>68.5</b>
<b>1997</b>												
January .....	99.7	98.6	90.0	80.7	69.9	81.5	86.1	85.3	80.0	72.8	66.7	72.7
February .....	98.3	97.4	88.7	78.0	67.6	79.2	84.6	83.9	78.6	70.3	64.7	70.4
March .....	96.3	95.5	86.3	75.7	66.3	76.8	82.5	81.8	76.1	67.9	63.0	68.2
April .....	96.4	95.5	86.4	74.5	64.9	75.8	82.6	81.8	76.6	66.8	61.1	67.3
May .....	96.6	95.7	86.3	76.5	66.0	77.5	83.4	82.8	76.9	69.0	61.7	68.9
June .....	95.4	94.6	85.5	72.8	64.8	74.3	82.4	81.7	75.8	65.4	59.6	66.0
July .....	93.9	93.2	83.5	73.2	63.0	74.4	80.5	79.9	73.4	65.5	57.8	65.5
August .....	99.2	98.3	89.3	80.4	71.4	81.1	85.7	85.2	79.4	72.6	64.6	72.4
September .....	98.2	97.4	88.4	75.5	65.8	76.8	84.4	83.7	78.1	67.8	61.2	68.1

Dash (–) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Notes: The 4th quarter of 1993 was a transitional period between the predecessor EIA-782 survey system and the revised EIA-782 survey system. The revised survey system contains additional product and sales categories, which may not be consistent with categories derived from the predecessor survey system. Beginning January 1994 all data are from the revised survey system and are consistent.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 9. U.S. Refiner Conventional Motor Gasoline Volumes by Grade and Sales Type**  
(Million Gallons per Day)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>1994</b> .....	<b>29.7</b>	<b>31.2</b>	<b>36.1</b>	<b>113.5</b>	<b>22.8</b>	<b>172.4</b>	<b>7.6</b>	<b>7.8</b>	<b>10.1</b>	<b>14.6</b>	<b>0.1</b>	<b>24.8</b>
<b>1995</b>												
January .....	18.5	19.6	13.2	88.3	22.4	123.8	4.9	5.1	3.8	W	W	15.1
February .....	21.7	23.1	18.6	98.4	23.3	140.2	5.7	5.9	5.2	W	W	18.0
March .....	23.5	24.8	21.2	103.4	25.1	149.7	6.2	6.5	5.4	W	W	19.0
April .....	25.9	27.2	22.5	103.9	23.8	150.3	6.4	6.6	5.6	W	W	19.1
May .....	27.0	28.3	23.1	111.4	25.0	159.5	6.4	6.6	5.8	W	W	20.0
June .....	28.0	29.3	23.6	116.2	29.3	169.0	6.6	6.8	5.9	W	W	20.6
July .....	27.1	28.3	22.8	112.6	25.9	161.3	6.5	6.7	5.9	W	W	20.4
August .....	27.5	28.8	23.2	116.1	27.4	166.7	6.7	6.9	W	W	0.2	21.3
September .....	26.2	27.4	21.8	108.3	29.2	159.3	6.6	6.8	5.7	W	W	19.6
October .....	22.2	23.5	15.1	103.5	25.1	143.7	5.7	5.9	4.0	13.5	—	17.5
November .....	20.3	21.5	13.9	100.4	26.5	140.8	5.4	5.6	3.9	13.5	—	17.4
December .....	20.3	21.4	13.9	98.4	28.4	140.7	5.5	5.6	4.0	13.0	—	16.9
<b>1995</b> .....	<b>24.0</b>	<b>25.3</b>	<b>19.4</b>	<b>105.1</b>	<b>26.0</b>	<b>150.5</b>	<b>6.0</b>	<b>6.3</b>	<b>5.1</b>	<b>13.6</b>	<b>0.1</b>	<b>18.7</b>
<b>1996</b>												
January .....	19.2	20.3	13.1	92.5	21.3	126.9	5.1	5.2	3.7	12.0	—	15.7
February .....	21.2	22.5	18.3	100.4	26.2	144.9	5.7	5.9	5.3	13.3	—	18.5
March .....	24.5	25.9	21.5	103.3	23.2	148.1	6.4	6.6	5.8	13.8	W	19.6
April .....	25.7	27.3	20.4	110.7	31.9	163.0	6.2	6.4	5.1	13.5	—	18.6
May .....	26.3	27.6	19.0	114.2	27.7	160.8	5.8	6.0	4.3	12.9	—	17.2
June .....	26.5	27.7	18.7	112.9	34.2	165.9	6.0	6.2	4.3	12.9	—	17.2
July .....	26.1	27.4	18.8	117.7	31.7	168.1	6.0	6.2	4.4	13.6	—	17.9
August .....	26.4	27.7	18.9	117.5	25.1	161.4	6.1	6.3	4.4	13.4	W	17.9
September .....	25.2	26.5	17.7	108.3	22.9	148.9	5.8	6.0	4.2	12.4	—	16.6
October .....	23.8	25.1	16.4	110.4	25.0	151.9	5.5	5.7	3.9	12.7	—	16.6
November .....	22.2	23.5	16.0	107.6	25.5	149.1	5.1	5.3	3.9	12.5	—	16.4
December .....	22.1	23.4	15.2	105.5	30.6	151.3	5.0	5.2	3.7	12.1	W	15.9
<b>1996</b> .....	<b>24.1</b>	<b>25.4</b>	<b>17.8</b>	<b>108.5</b>	<b>27.1</b>	<b>153.4</b>	<b>5.7</b>	<b>5.9</b>	<b>4.4</b>	<b>12.9</b>	<b>NA</b>	<b>17.3</b>
<b>1997</b>												
January .....	20.6	22.0	14.7	98.2	27.1	140.0	4.7	4.9	3.6	11.4	—	15.0
February .....	22.2	23.7	15.5	103.1	31.3	150.0	5.0	5.2	3.8	11.9	—	15.7
March .....	24.1	25.6	16.7	106.6	27.7	151.0	5.6	5.7	3.9	W	W	16.1
April .....	25.1	26.9	18.2	111.8	27.0	157.0	5.8	5.9	4.2	12.9	—	17.0
May .....	24.7	26.1	17.6	114.4	29.6	161.6	5.7	5.9	4.1	13.0	—	17.2
June .....	25.6	27.0	17.6	116.3	23.4	157.4	5.9	6.1	4.2	13.3	—	17.4
July .....	28.2	29.5	17.3	122.1	25.2	164.6	6.4	6.6	4.1	14.3	—	18.4
August .....	27.3	28.7	17.2	119.1	25.0	161.3	6.2	6.4	4.0	13.5	—	17.5
September .....	26.2	27.8	16.1	112.7	26.1	155.0	6.0	6.2	3.7	12.7	—	16.4

See footnotes at end of table.

**Table 9. U.S. Refiner Conventional Motor Gasoline Volumes by Grade and Sales Type**  
(Million Gallons per Day) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>1994</b> .....	<b>8.5</b>	<b>8.9</b>	<b>16.5</b>	<b>28.0</b>	<b>2.8</b>	<b>47.2</b>	<b>45.8</b>	<b>47.9</b>	<b>62.7</b>	<b>156.0</b>	<b>25.8</b>	<b>244.5</b>
<b>1995</b>												
January .....	5.1	5.4	5.9	W	W	30.3	28.5	30.1	22.9	121.9	24.5	169.3
February .....	5.8	6.0	7.9	W	W	34.5	33.2	35.1	31.6	135.1	26.0	192.8
March .....	7.4	7.7	8.4	W	W	36.2	37.2	39.0	35.0	142.4	27.4	204.8
April .....	6.6	6.9	8.7	W	W	36.6	38.9	40.7	36.8	142.6	26.5	206.0
May .....	6.1	6.4	8.5	W	W	36.2	39.6	41.4	37.3	150.8	27.6	215.7
June .....	6.4	6.7	8.4	W	W	37.2	41.0	42.9	38.0	156.3	32.4	226.7
July .....	6.6	6.9	8.4	W	W	37.1	40.2	41.9	37.0	152.6	29.1	218.8
August .....	6.7	7.0	W	W	2.9	38.7	40.9	42.8	37.9	158.2	30.5	226.6
September .....	6.5	6.8	8.4	W	W	37.7	39.2	41.0	35.9	147.5	33.1	216.5
October .....	5.7	6.0	6.2	24.9	2.6	33.7	33.6	35.4	25.4	141.9	27.7	194.9
November .....	5.5	5.8	6.2	25.2	2.8	34.2	31.2	32.8	24.0	139.0	29.3	192.3
December .....	5.4	5.7	6.1	25.3	4.0	35.4	31.2	32.8	24.0	136.7	32.3	193.0
<b>1995</b> .....	<b>6.2</b>	<b>6.4</b>	<b>7.7</b>	<b>25.1</b>	<b>2.9</b>	<b>35.6</b>	<b>36.2</b>	<b>38.0</b>	<b>32.1</b>	<b>143.8</b>	<b>28.9</b>	<b>204.8</b>
<b>1996</b>												
January .....	5.0	5.2	5.6	22.8	3.0	31.4	29.2	30.8	22.4	127.3	24.3	174.0
February .....	5.5	5.7	7.5	24.4	3.8	35.7	32.3	34.1	31.1	138.1	30.0	199.1
March .....	5.6	5.9	7.8	24.0	2.4	34.1	36.5	38.4	35.1	141.1	25.6	201.8
April .....	5.1	5.3	6.2	22.8	2.1	31.1	36.9	39.0	31.7	147.0	34.0	212.7
May .....	4.7	4.9	5.5	21.3	2.0	28.7	36.8	38.5	28.7	148.3	29.6	206.7
June .....	5.0	5.2	5.6	21.9	1.8	29.3	37.5	39.1	28.6	147.7	36.0	212.3
July .....	5.1	5.4	5.8	24.0	2.1	31.9	37.2	38.9	28.9	155.3	33.8	218.0
August .....	5.3	5.6	5.8	23.9	2.3	32.1	37.9	39.6	29.1	154.9	27.5	211.4
September .....	4.9	5.1	5.5	21.6	1.8	29.0	36.0	37.6	27.4	142.4	24.7	194.5
October .....	4.5	4.8	5.1	21.9	2.8	29.9	33.8	35.5	25.5	145.0	27.9	198.4
November .....	4.1	4.3	5.0	20.7	1.9	27.6	31.3	33.0	24.8	140.8	27.5	193.0
December .....	4.0	4.3	4.8	20.3	3.9	29.0	31.2	32.9	23.7	138.0	34.6	196.2
<b>1996</b> .....	<b>4.9</b>	<b>5.1</b>	<b>5.8</b>	<b>22.5</b>	<b>2.5</b>	<b>30.8</b>	<b>34.7</b>	<b>36.5</b>	<b>28.1</b>	<b>143.8</b>	<b>29.6</b>	<b>201.5</b>
<b>1997</b>												
January .....	3.9	4.1	4.7	19.1	2.2	25.9	29.2	31.0	23.0	128.7	29.3	180.9
February .....	4.1	4.4	4.9	19.9	1.9	26.6	31.4	33.3	24.1	135.0	33.2	192.3
March .....	4.6	4.8	5.2	W	W	28.3	34.2	36.1	25.8	139.6	30.1	195.5
April .....	4.8	5.0	5.5	22.1	2.5	30.1	35.7	37.9	27.9	146.7	29.5	204.1
May .....	4.8	5.1	5.6	22.9	2.2	30.6	35.2	37.1	27.3	150.3	31.8	209.4
June .....	5.1	5.3	5.5	23.2	2.8	31.5	36.6	38.3	27.3	152.8	26.2	206.3
July .....	5.5	5.7	5.4	25.0	1.7	32.2	40.1	41.7	26.9	161.4	27.0	215.2
August .....	5.0	5.2	5.2	23.4	2.6	31.2	38.5	40.3	26.4	156.0	27.6	210.0
September .....	4.8	5.0	4.8	21.6	2.4	28.9	37.1	39.0	24.7	147.0	28.6	200.3

Dash (–) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Notes: The 4th quarter of 1993 was a transitional period between the predecessor EIA-782 survey system and the revised EIA-782 survey system. The revised survey system contains additional product and sales categories, which may not be consistent with categories derived from the predecessor survey system. Beginning January 1994 all data are from the revised survey system and are consistent.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*. Totals may not equal the sum of the components due to rounding.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 10. U.S. Refiner Oxygenated Motor Gasoline Prices by Grade and Sales Type**  
(Cents per Gallon Excluding Taxes)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>1994</b> .....	<b>74.3</b>	<b>73.9</b>	<b>66.7</b>	<b>58.6</b>	<b>52.7</b>	<b>63.2</b>	<b>84.3</b>	<b>83.8</b>	<b>72.7</b>	<b>62.2</b>	<b>W</b>	<b>69.6</b>
<b>1995</b>												
January .....	76.6	76.4	69.5	60.6	56.1	64.7	85.7	85.6	74.4	64.0	—	70.0
February .....	76.2	76.1	69.9	62.8	55.2	66.0	86.3	86.2	73.4	65.3	—	69.2
March .....	77.3	77.2	72.4	65.1	—	68.9	85.7	85.6	75.1	66.1	—	70.0
April .....	83.4	83.4	76.7	67.9	—	71.5	91.1	90.9	W	69.7	—	73.8
May .....	89.0	88.8	80.4	71.8	—	75.2	95.4	95.3	W	73.5	—	77.7
June .....	90.7	90.7	80.4	66.5	—	71.9	97.6	97.4	W	68.7	—	75.0
July .....	88.1	88.1	77.9	62.6	—	68.5	92.4	92.4	W	63.9	—	69.6
August .....	84.8	84.8	76.8	63.7	—	68.7	87.7	87.6	W	65.3	—	69.8
September .....	83.4	83.1	74.3	66.4	69.3	69.4	85.2	85.1	75.6	69.1	—	72.4
October .....	75.6	75.3	70.9	63.2	W	66.8	80.4	80.2	75.3	67.0	—	72.3
November .....	74.9	74.7	69.9	62.4	53.6	65.3	82.8	82.7	75.0	65.5	—	71.2
December .....	74.6	74.4	69.7	62.1	58.3	65.5	82.0	81.9	74.6	65.8	—	71.4
<b>1995</b> .....	<b>76.7</b>	<b>76.5</b>	<b>70.9</b>	<b>63.0</b>	<b>59.2</b>	<b>66.5</b>	<b>83.4</b>	<b>83.3</b>	<b>75.0</b>	<b>65.9</b>	<b>—</b>	<b>71.3</b>
<b>1996</b>												
January .....	76.3	76.0	70.4	61.4	W	65.6	84.0	83.8	76.0	64.8	—	72.0
February .....	77.6	77.4	72.3	64.4	—	68.2	85.7	85.7	78.4	67.4	—	74.2
March .....	84.7	84.4	79.5	72.2	W	75.8	90.8	90.8	85.3	74.5	—	81.4
April .....	94.0	93.6	87.2	76.1	—	80.0	101.6	101.6	93.6	77.3	—	86.2
May .....	99.1	98.6	94.3	76.1	—	82.3	108.1	107.9	99.8	77.3	—	88.1
June .....	97.9	97.5	NA	76.5	—	82.3	105.7	105.7	98.3	77.4	—	87.6
July .....	95.8	95.4	NA	75.0	—	80.6	103.7	103.6	96.5	76.0	—	85.9
August .....	97.2	96.8	NA	78.1	—	83.2	104.3	104.3	NA	79.8	—	87.9
September .....	97.8	97.3	88.4	79.7	—	83.2	104.5	104.4	94.1	82.5	—	88.4
October .....	93.4	93.1	85.4	78.4	—	82.0	102.0	101.9	90.9	82.3	—	87.8
November .....	91.7	91.5	80.8	78.0	—	79.3	102.1	102.0	86.3	81.3	—	84.0
December .....	88.1	87.9	77.0	75.3	—	76.1	99.2	99.2	82.6	78.6	—	80.8
<b>1996</b> .....	<b>87.0</b>	<b>86.7</b>	<b>78.4</b>	<b>71.8</b>	<b>W</b>	<b>74.6</b>	<b>94.0</b>	<b>93.9</b>	<b>83.2</b>	<b>73.8</b>	<b>—</b>	<b>79.3</b>
<b>1997</b>												
January .....	89.4	89.2	82.3	77.2	—	79.7	100.2	100.2	87.4	80.3	—	84.1
February .....	92.4	92.2	87.5	77.5	—	82.5	101.8	101.7	92.0	80.5	—	86.8
March .....	95.1	94.8	89.0	75.3	—	83.0	103.0	103.0	93.9	76.7	—	88.2
April .....	88.7	88.4	82.1	69.4	—	72.3	95.6	95.6	85.9	70.3	—	75.8
May .....	89.3	89.2	82.5	75.4	—	78.0	96.8	96.8	89.1	76.2	—	82.1
June .....	88.0	87.8	80.1	71.6	—	74.7	95.9	95.9	85.4	72.9	—	78.0
July .....	85.0	84.9	75.1	71.1	—	72.5	93.2	93.2	81.5	72.9	—	76.4
August .....	87.6	87.5	79.9	77.7	—	78.4	96.3	96.3	85.4	79.5	—	81.8
September .....	91.5	91.3	85.4	75.0	W	78.5	99.9	99.8	89.7	78.7	—	82.8

See footnotes at end of table.

**Table 10. U.S. Refiner Oxygenated Motor Gasoline Prices by Grade and Sales Type**  
(Cents per Gallon Excluding Taxes) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>1994</b> .....	<b>92.9</b>	<b>92.4</b>	<b>79.9</b>	<b>67.5</b>	<b>56.7</b>	<b>76.5</b>	<b>79.3</b>	<b>78.8</b>	<b>71.5</b>	<b>60.7</b>	<b>53.5</b>	<b>67.5</b>
<b>1995</b>												
January .....	95.9	95.8	83.7	70.6	W	78.2	80.7	80.4	72.9	62.4	56.4	67.6
February .....	95.0	94.9	84.0	71.9	—	78.6	80.2	80.0	72.7	64.4	55.2	68.3
March .....	94.0	93.7	85.5	72.8	—	80.1	80.4	80.3	75.0	66.3	—	70.9
April .....	100.7	100.5	93.0	74.7	—	81.4	86.3	86.2	79.1	69.1	—	73.1
May .....	105.4	105.1	96.9	78.2	—	84.6	91.5	91.4	82.9	72.9	—	76.7
June .....	106.4	106.4	98.8	73.3	—	81.6	93.2	93.2	83.0	67.8	—	73.6
July .....	104.9	104.9	97.4	69.9	—	79.3	90.7	90.7	80.5	63.8	—	70.1
August .....	102.2	102.2	96.2	70.7	—	79.2	87.5	87.5	79.5	64.9	—	70.4
September .....	100.1	99.6	87.8	73.9	W	77.6	86.3	86.0	76.9	67.8	68.8	70.9
October .....	92.5	92.1	84.7	73.6	W	80.3	79.0	78.7	74.5	65.2	W	70.0
November .....	92.6	92.4	83.7	72.3	58.8	78.5	79.0	78.8	73.5	64.2	54.3	68.4
December .....	93.3	93.0	83.3	72.2	W	78.7	78.8	78.6	73.3	64.0	59.0	68.6
<b>1995</b> .....	<b>94.6</b>	<b>94.3</b>	<b>84.7</b>	<b>72.4</b>	<b>W</b>	<b>79.1</b>	<b>80.4</b>	<b>80.2</b>	<b>74.2</b>	<b>64.7</b>	<b>59.5</b>	<b>69.1</b>
<b>1996</b>												
January .....	95.4	95.1	84.1	71.7	57.7	78.8	80.6	80.4	73.9	63.2	W	68.7
February .....	97.1	97.0	86.6	73.8	—	81.2	82.0	81.8	75.6	66.0	—	70.9
March .....	103.0	102.6	93.0	79.7	W	87.6	88.2	87.9	82.6	73.3	W	78.2
April .....	111.4	111.2	101.6	84.6	—	91.9	97.0	96.6	90.2	77.1	—	82.2
May .....	117.2	117.1	108.5	84.0	—	92.5	101.9	101.5	96.8	77.2	—	84.1
June .....	114.5	114.4	NA	83.1	—	91.6	100.3	100.0	NA	77.4	—	84.1
July .....	111.9	111.9	NA	81.7	—	89.4	98.3	97.9	NA	76.0	—	82.4
August .....	111.8	111.7	NA	84.1	—	91.3	99.5	99.2	NA	79.1	—	84.8
September .....	111.9	111.2	101.8	86.8	—	93.5	100.3	99.8	91.0	80.8	—	85.1
October .....	110.1	109.8	98.3	86.9	—	93.8	96.8	96.5	88.1	79.7	—	84.2
November .....	110.1	109.8	94.2	86.1	—	90.4	95.5	95.2	83.4	79.3	—	81.4
December .....	107.1	106.9	90.3	83.7	—	87.2	91.9	91.8	79.7	76.7	—	78.1
<b>1996</b> .....	<b>103.7</b>	<b>103.5</b>	<b>90.7</b>	<b>80.0</b>	<b>58.3</b>	<b>85.5</b>	<b>90.2</b>	<b>90.0</b>	<b>81.1</b>	<b>73.1</b>	<b>W</b>	<b>76.8</b>
<b>1997</b>												
January .....	109.1	108.9	95.9	85.7	—	91.0	93.3	93.1	84.8	78.6	—	81.6
February .....	111.9	111.6	101.0	86.2	—	94.3	95.9	95.7	89.8	78.8	—	84.5
March .....	113.1	112.8	103.2	82.6	—	96.1	98.0	97.7	91.7	76.2	—	85.2
April .....	104.2	104.2	94.7	75.4	—	79.9	91.1	90.9	84.0	70.1	—	73.5
May .....	105.5	105.5	98.4	80.6	—	86.6	91.7	91.5	84.7	76.0	—	79.3
June .....	104.7	104.7	93.2	77.0	—	82.2	90.4	90.3	81.9	72.3	—	75.8
July .....	101.8	101.8	88.5	76.1	—	79.6	87.6	87.4	77.0	71.9	—	73.7
August .....	105.1	104.9	92.6	82.7	—	85.7	90.2	90.1	81.6	78.4	—	79.5
September .....	108.3	107.9	97.6	82.1	—	87.2	93.9	93.7	87.2	76.2	W	79.9

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Notes: The 4th quarter of 1993 was a transitional period between the predecessor EIA-782 survey system and the revised EIA-782 survey system. The revised survey system contains additional product and sales categories, which may not be consistent with categories derived from the predecessor survey system. Beginning January 1994 all data are from the revised survey system and are consistent.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 11. U.S. Refiner Oxygenated Motor Gasoline Volumes by Grade and Sales Type**  
(Million Gallons per Day)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>1994</b> .....	<b>4.0</b>	<b>4.1</b>	<b>9.4</b>	<b>5.2</b>	<b>0.9</b>	<b>15.5</b>	<b>0.7</b>	<b>0.7</b>	<b>2.1</b>	<b>0.8</b>	<b>W</b>	<b>2.9</b>
<b>1995</b>												
January .....	5.7	5.8	8.7	W	W	17.7	1.1	1.1	W	W	—	2.6
February .....	3.8	3.9	4.5	4.4	0.3	9.2	0.6	0.6	W	W	—	0.9
March .....	1.6	1.7	2.0	1.8	—	3.8	0.1	0.1	W	W	—	0.3
April .....	0.5	0.5	0.8	1.1	—	1.9	0.0	0.0	W	W	—	0.2
May .....	0.5	0.5	0.8	1.2	—	1.9	0.0	0.0	W	W	—	0.2
June .....	0.5	0.5	0.8	1.2	—	2.0	0.0	0.0	W	W	—	0.2
July .....	0.5	0.5	0.8	1.2	—	2.0	0.0	0.0	W	W	—	0.2
August .....	0.5	0.5	0.8	1.3	—	2.0	0.0	0.0	W	W	—	0.2
September .....	0.6	0.6	1.2	W	W	4.4	0.1	0.1	W	W	—	0.5
October .....	4.1	4.2	7.7	W	W	15.4	0.9	0.9	W	W	—	3.2
November .....	5.7	5.8	8.7	8.7	1.3	18.8	1.5	1.5	2.4	1.6	—	3.9
December .....	5.9	6.0	8.7	W	W	18.0	1.7	1.7	2.4	1.3	—	3.8
<b>1995</b> .....	<b>2.5</b>	<b>2.5</b>	<b>3.8</b>	<b>W</b>	<b>W</b>	<b>8.1</b>	<b>0.5</b>	<b>0.5</b>	<b>0.8</b>	<b>0.5</b>	<b>—</b>	<b>1.3</b>
<b>1996</b>												
January .....	5.5	5.6	8.6	7.6	W	17.0	1.6	1.6	2.2	1.2	—	3.5
February .....	4.2	4.3	4.2	4.5	—	8.7	1.1	1.1	1.0	0.6	—	1.6
March .....	2.1	2.2	1.8	1.8	W	3.7	0.5	0.5	0.4	0.2	—	0.6
April .....	1.2	1.2	0.7	1.3	—	2.1	0.2	0.2	0.2	0.1	—	0.3
May .....	1.0	1.0	0.7	1.5	—	2.2	0.2	0.2	0.1	0.2	—	0.3
June .....	1.1	1.1	NA	1.5	—	2.3	0.2	0.2	0.2	0.2	—	0.3
July .....	1.1	1.1	NA	1.5	—	2.3	0.2	0.2	0.2	0.2	—	0.3
August .....	1.0	1.0	NA	1.6	—	2.4	0.2	0.2	NA	0.2	—	0.3
September .....	1.0	1.0	1.3	1.9	—	3.1	0.2	0.2	0.2	0.2	—	0.5
October .....	2.4	2.4	3.3	3.1	—	6.4	0.5	0.5	0.6	0.3	—	0.9
November .....	4.0	4.1	4.0	4.3	—	8.4	0.9	0.9	0.7	0.6	—	1.2
December .....	4.4	4.5	4.0	4.5	—	8.5	0.9	0.9	0.7	0.5	—	1.2
<b>1996</b> .....	<b>2.4</b>	<b>2.5</b>	<b>2.6</b>	<b>2.9</b>	<b>W</b>	<b>5.6</b>	<b>0.5</b>	<b>0.5</b>	<b>0.5</b>	<b>0.4</b>	<b>—</b>	<b>0.9</b>
<b>1997</b>												
January .....	4.0	4.1	4.0	4.3	—	8.3	0.9	0.9	W	W	—	1.1
February .....	4.0	4.0	4.0	4.0	—	8.0	0.8	0.8	W	W	—	1.1
March .....	2.5	2.6	2.9	2.3	—	5.1	0.4	0.4	0.5	0.2	—	0.7
April .....	0.9	0.9	0.5	1.6	—	2.1	0.1	0.2	W	W	—	0.3
May .....	1.3	1.4	1.0	1.7	—	2.7	0.2	0.2	0.2	0.2	—	0.3
June .....	1.5	1.6	1.0	1.8	—	2.8	0.2	0.2	W	W	—	0.4
July .....	1.3	1.4	1.0	1.8	—	2.8	0.2	0.2	W	W	—	0.4
August .....	1.3	1.4	1.0	1.9	—	2.8	0.2	0.2	W	W	—	0.4
September .....	1.6	1.6	1.3	W	W	3.7	0.2	0.2	W	W	—	0.6

See footnotes at end of table.

**Table 11. U.S. Refiner Oxygenated Motor Gasoline Volumes by Grade and Sales Type**  
(Million Gallons per Day) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>1994</b> .....	<b>1.2</b>	<b>1.2</b>	<b>5.0</b>	<b>1.4</b>	<b>0.2</b>	<b>6.6</b>	<b>5.9</b>	<b>6.1</b>	<b>16.5</b>	<b>7.4</b>	<b>1.1</b>	<b>25.0</b>
<b>1995</b>												
January .....	1.2	1.2	W	W	W	4.2	8.0	8.1	12.7	10.6	1.2	24.4
February .....	0.8	0.8	W	W	—	2.0	5.2	5.3	6.0	5.7	0.3	12.0
March .....	0.3	0.4	W	W	—	0.8	2.1	2.1	2.6	2.3	—	5.0
April .....	0.1	0.1	W	W	—	0.4	0.6	0.6	1.0	1.5	—	2.4
May .....	0.1	0.1	W	W	—	0.4	0.6	0.6	1.0	1.5	—	2.5
June .....	0.1	0.1	W	W	—	0.4	0.6	0.6	1.0	1.6	—	2.6
July .....	0.1	0.1	W	W	—	0.4	0.6	0.6	1.0	1.6	—	2.6
August .....	0.1	0.1	W	W	—	0.4	0.6	0.6	1.0	1.6	—	2.6
September .....	0.1	0.1	W	W	W	0.9	0.8	0.8	1.8	2.5	1.3	5.7
October .....	0.9	0.9	W	1.3	W	4.0	5.9	6.0	12.2	W	W	22.5
November .....	1.3	1.3	2.8	1.7	0.2	4.6	8.5	8.6	13.9	11.9	1.5	27.3
December .....	1.3	1.4	2.8	W	W	4.5	8.9	9.1	13.8	11.1	1.3	26.2
<b>1995</b> .....	<b>0.5</b>	<b>0.5</b>	<b>1.1</b>	<b>W</b>	<b>W</b>	<b>1.9</b>	<b>3.5</b>	<b>3.6</b>	<b>5.7</b>	<b>5.1</b>	<b>0.6</b>	<b>11.3</b>
<b>1996</b>												
January .....	1.3	1.3	2.6	1.4	0.2	4.2	8.3	8.5	13.5	10.2	W	24.7
February .....	0.9	0.9	1.1	0.8	—	1.8	6.3	6.3	6.2	5.9	—	12.1
March .....	0.4	0.4	0.4	0.3	W	0.7	3.0	3.0	2.6	2.3	W	5.0
April .....	0.2	0.2	0.1	0.2	—	0.3	1.6	1.6	1.0	1.7	—	2.7
May .....	0.1	0.1	0.1	0.2	—	0.3	1.3	1.3	1.0	1.8	—	2.8
June .....	0.1	0.1	NA	0.2	—	0.4	1.4	1.4	NA	1.9	—	2.9
July .....	0.1	0.1	NA	0.3	—	0.4	1.4	1.4	NA	2.0	—	3.0
August .....	0.1	0.1	NA	0.3	—	0.4	1.2	1.3	NA	2.1	—	3.2
September .....	0.1	0.2	0.2	0.3	—	0.5	1.3	1.4	1.8	2.4	—	4.1
October .....	0.4	0.4	0.7	0.5	—	1.2	3.3	3.3	4.6	3.9	—	8.5
November .....	0.6	0.7	0.8	0.7	—	1.5	5.5	5.6	5.5	5.6	—	11.1
December .....	0.7	0.7	0.8	0.7	—	1.6	6.1	6.1	5.6	5.7	—	11.3
<b>1996</b> .....	<b>0.4</b>	<b>0.4</b>	<b>0.6</b>	<b>0.5</b>	<b>0.0</b>	<b>1.1</b>	<b>3.4</b>	<b>3.4</b>	<b>3.7</b>	<b>3.8</b>	<b>W</b>	<b>7.6</b>
<b>1997</b>												
January .....	0.6	0.6	W	W	—	1.4	5.5	5.5	5.4	5.6	—	10.9
February .....	0.6	0.6	W	W	—	1.3	5.3	5.4	5.4	5.1	—	10.5
March .....	0.3	0.4	0.6	0.3	—	0.9	3.3	3.3	3.9	2.8	—	6.7
April .....	0.1	0.1	W	W	—	0.3	1.2	1.2	0.7	2.0	—	2.7
May .....	0.1	0.1	0.1	0.2	—	0.3	1.7	1.7	1.3	2.1	—	3.4
June .....	0.2	0.2	W	W	—	0.4	2.0	2.0	1.3	2.3	—	3.6
July .....	0.2	0.2	W	W	—	0.4	1.7	1.7	1.3	2.3	—	3.6
August .....	0.1	0.1	W	W	—	0.4	1.7	1.7	1.3	2.4	—	3.6
September .....	0.2	0.2	0.2	0.3	—	0.5	2.0	2.0	W	3.1	W	4.8

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Notes: The 4th quarter of 1993 was a transitional period between the predecessor EIA-782 survey system and the revised EIA-782 survey system. The revised survey system contains additional product and sales categories, which may not be consistent with categories derived from the predecessor survey system. Beginning January 1994 all data are from the revised survey system and are consistent.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*. Totals may not equal the sum of the components due to rounding.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."



**Table 12. U.S. Refiner Reformulated Motor Gasoline Prices by Grade and Sales Type**  
(Cents per Gallon Excluding Taxes)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>1994</b> .....	<b>76.4</b>	<b>75.8</b>	<b>72.0</b>	<b>56.9</b>	<b>54.3</b>	<b>63.8</b>	<b>87.9</b>	<b>87.3</b>	<b>77.0</b>	<b>62.8</b>	<b>W</b>	<b>72.8</b>
<b>1995</b>												
January .....	75.7	75.1	72.1	59.0	56.1	65.0	85.3	84.8	77.1	63.5	—	73.2
February .....	74.4	73.8	70.9	59.4	57.5	64.7	83.5	83.1	75.6	64.3	—	72.4
March .....	73.0	72.4	69.7	57.4	54.0	62.7	82.1	81.7	74.5	62.1	—	70.9
April .....	75.0	74.5	71.4	64.0	59.5	67.3	84.0	83.7	76.4	68.4	—	74.0
May .....	80.3	80.0	76.4	69.6	64.8	72.3	89.0	88.8	81.4	74.1	—	79.3
June .....	81.8	81.5	77.4	65.9	61.8	71.0	90.4	90.0	81.9	70.8	—	78.6
July .....	79.2	78.6	74.2	59.6	58.1	66.3	87.7	87.3	78.2	64.7	—	74.2
August .....	75.4	74.8	70.1	59.3	57.5	64.0	83.5	83.1	74.2	64.1	—	71.1
September .....	72.6	72.2	68.3	60.5	58.0	63.9	80.5	80.2	72.4	64.7	—	70.2
October .....	71.5	71.0	67.3	55.7	52.9	60.9	80.3	80.0	71.6	60.2	—	68.3
November .....	69.1	68.7	64.8	55.6	52.6	59.5	78.8	78.4	69.8	59.8	—	66.9
December .....	69.5	69.1	65.2	59.1	57.5	61.9	78.9	78.7	70.3	63.2	—	68.3
<b>1995</b> .....	<b>74.9</b>	<b>74.4</b>	<b>70.7</b>	<b>60.5</b>	<b>57.3</b>	<b>65.0</b>	<b>83.6</b>	<b>83.3</b>	<b>75.3</b>	<b>65.1</b>	<b>—</b>	<b>72.3</b>
<b>1996</b>												
January .....	71.4	71.0	67.6	59.2	56.0	63.1	80.9	80.6	72.3	63.8	—	69.9
February .....	72.2	71.7	67.8	59.8	56.8	63.2	81.3	81.0	73.1	64.2	—	70.5
March .....	76.7	76.3	72.0	65.8	65.5	68.8	86.0	85.7	77.9	70.0	—	75.6
April .....	87.7	87.3	83.5	77.0	77.3	80.2	96.5	96.2	88.8	81.4	—	86.7
May .....	95.7	95.3	91.7	77.0	74.8	83.4	105.1	104.7	96.8	81.4	—	92.2
June .....	93.5	92.9	89.1	70.5	68.0	78.9	103.0	102.4	94.0	75.1	—	88.3
July .....	88.8	88.4	85.3	70.7	68.7	77.3	98.6	98.3	90.3	75.2	—	85.6
August .....	84.3	84.0	79.9	68.9	65.2	73.4	94.0	93.7	85.1	73.4	W	81.5
September .....	81.4	81.1	76.8	69.5	66.5	72.6	91.0	90.8	82.3	73.8	W	79.8
October .....	80.2	79.9	74.7	70.4	66.5	72.1	90.2	89.9	80.5	74.8	W	78.8
November .....	80.0	79.7	73.5	71.6	65.2	71.6	89.7	89.4	79.6	75.9	W	78.5
December .....	80.0	79.7	74.7	71.8	69.4	72.8	89.8	89.5	80.5	76.3	W	79.2
<b>1996</b> .....	<b>83.4</b>	<b>83.0</b>	<b>78.8</b>	<b>69.8</b>	<b>67.7</b>	<b>73.8</b>	<b>92.4</b>	<b>92.1</b>	<b>83.7</b>	<b>74.1</b>	<b>W</b>	<b>80.9</b>
<b>1997</b>												
January .....	82.3	82.1	76.9	73.8	73.2	75.2	92.0	91.6	82.4	77.6	W	81.0
February .....	82.9	82.7	77.9	71.0	72.1	74.5	92.6	92.4	83.1	75.0	W	80.8
March .....	82.2	82.0	78.5	69.7	72.7	74.4	91.9	91.7	83.7	73.8	W	80.9
April .....	83.0	82.8	80.5	68.0	69.0	74.4	92.5	92.4	85.1	72.3	W	81.5
May .....	82.9	82.5	78.3	68.4	63.4	72.3	92.5	92.2	83.8	72.6	NA	80.5
June .....	81.1	80.7	76.4	64.0	58.1	69.2	91.1	90.7	81.9	68.5	W	78.0
July .....	79.5	79.2	74.0	64.7	59.3	68.4	89.7	89.2	79.5	69.1	W	76.4
August .....	85.0	84.8	81.3	74.2	72.2	77.2	94.9	94.7	87.1	78.4	W	84.5
September .....	88.3	88.0	85.0	71.7	72.6	78.2	98.0	97.9	90.4	75.9	W	86.2

See footnotes at end of table.

**Table 12. U.S. Refiner Reformulated Motor Gasoline Prices by Grade and Sales Type**  
(Cents per Gallon Excluding Taxes) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>1994</b> .....	<b>96.6</b>	<b>95.8</b>	<b>86.1</b>	<b>67.7</b>	<b>55.8</b>	<b>77.7</b>	<b>83.1</b>	<b>82.4</b>	<b>77.1</b>	<b>59.9</b>	<b>54.7</b>	<b>68.7</b>
<b>1995</b>												
January .....	95.2	94.6	85.7	68.6	59.0	78.6	82.1	81.5	77.1	61.6	56.8	69.8
February .....	93.5	92.9	84.5	68.9	58.9	78.6	80.6	79.9	75.8	62.0	57.7	69.3
March .....	89.4	88.9	83.5	66.6	57.5	76.7	79.1	78.5	74.7	59.9	54.6	67.5
April .....	93.4	92.9	85.1	73.2	66.9	80.8	81.1	80.6	76.4	66.5	60.7	71.8
May .....	98.5	98.0	90.3	80.4	74.3	86.4	86.0	85.7	81.4	72.4	66.4	76.9
June .....	99.6	99.2	91.4	76.6	67.4	85.7	87.5	87.1	82.3	68.7	62.6	75.8
July .....	97.2	96.7	87.9	69.9	62.0	81.3	84.9	84.4	78.9	62.4	58.6	71.2
August .....	93.3	92.7	83.4	69.5	61.6	77.5	81.1	80.5	74.8	62.1	58.3	68.5
September .....	91.1	90.7	81.7	70.6	63.2	77.2	78.4	78.1	73.1	63.1	59.0	68.3
October .....	89.8	89.3	80.3	65.4	57.1	73.9	77.6	77.1	72.0	58.4	54.0	65.5
November .....	87.6	87.2	77.8	65.3	57.3	72.2	75.5	75.0	69.7	58.3	53.8	64.0
December .....	88.0	87.6	78.7	69.5	64.1	74.9	75.8	75.4	70.3	61.9	59.0	66.4
<b>1995</b> .....	<b>92.9</b>	<b>92.4</b>	<b>84.1</b>	<b>70.4</b>	<b>61.6</b>	<b>78.5</b>	<b>80.8</b>	<b>80.3</b>	<b>75.6</b>	<b>63.2</b>	<b>58.2</b>	<b>69.6</b>
<b>1996</b>												
January .....	89.9	89.5	80.6	69.3	61.4	76.1	77.5	77.1	72.4	61.9	57.2	67.5
February .....	90.3	89.8	81.2	69.4	62.1	76.4	78.2	77.7	72.8	62.4	57.8	67.6
March .....	94.6	94.1	85.5	75.1	69.4	81.3	82.5	82.0	76.9	68.2	66.2	72.9
April .....	104.8	104.3	95.7	85.9	80.2	91.7	92.7	92.2	87.7	79.2	77.8	83.7
May .....	111.6	110.9	103.0	86.0	77.4	95.6	100.1	99.6	95.1	79.0	75.2	86.9
June .....	109.6	108.9	100.4	79.1	68.9	90.6	98.0	97.3	92.6	72.5	68.1	82.6
July .....	105.6	105.1	96.9	79.8	70.8	89.5	93.5	93.1	89.0	72.9	69.0	81.0
August .....	101.4	101.0	92.3	78.5	69.1	86.4	89.1	88.8	83.9	71.1	65.7	77.2
September .....	99.2	98.8	89.8	79.3	70.3	85.0	86.3	86.0	81.0	71.7	67.2	76.2
October .....	98.7	98.3	88.9	80.6	71.4	85.2	85.2	84.8	79.2	72.7	67.3	75.8
November .....	98.8	98.3	88.6	82.6	70.8	85.7	85.0	84.6	78.3	74.0	66.0	75.5
December .....	99.2	98.8	89.1	82.9	75.0	86.1	85.0	84.6	79.2	74.2	70.1	76.3
<b>1996</b> .....	<b>100.2</b>	<b>99.8</b>	<b>91.0</b>	<b>79.1</b>	<b>70.9</b>	<b>85.9</b>	<b>88.2</b>	<b>87.8</b>	<b>82.8</b>	<b>72.0</b>	<b>68.2</b>	<b>77.4</b>
<b>1997</b>												
January .....	100.9	100.5	90.8	83.6	77.9	87.9	87.1	86.8	81.1	75.9	73.8	78.5
February .....	101.0	100.7	91.1	80.2	73.5	87.2	87.6	87.3	81.9	72.9	72.3	77.9
March .....	100.0	99.7	91.1	78.7	71.6	86.1	86.8	86.6	82.4	71.7	72.6	77.7
April .....	100.0	100.1	91.9	77.2	69.5	86.0	87.5	87.5	84.0	70.1	69.1	77.8
May .....	99.5	99.3	90.3	78.1	70.2	85.1	87.4	87.2	82.2	70.6	64.4	76.1
June .....	98.6	97.9	88.9	74.0	65.0	82.5	86.0	85.6	80.5	66.3	59.4	73.2
July .....	97.6	96.9	86.8	75.0	64.3	81.6	84.4	84.1	78.1	67.0	60.1	72.3
August .....	103.0	102.8	94.3	84.6	78.3	90.1	89.6	89.5	85.4	76.5	73.0	80.8
September .....	105.9	106.0	97.1	81.1	75.2	90.7	92.7	92.6	88.7	73.7	73.0	81.7

Dash (–) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 13. U.S. Refiner Reformulated Motor Gasoline Volumes by Grade and Sales Type**  
(Million Gallons per Day)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>1994</b> .....	<b>0.6</b>	<b>0.6</b>	<b>2.1</b>	<b>1.6</b>	<b>0.6</b>	<b>4.3</b>	<b>0.2</b>	<b>0.2</b>	<b>0.7</b>	<b>0.3</b>	<b>W</b>	<b>1.0</b>
<b>1995</b>												
January .....	7.1	7.4	19.6	W	W	40.7	2.8	2.8	7.0	2.8	—	9.8
February .....	7.5	7.8	20.5	17.3	5.1	42.9	2.9	3.0	7.4	2.9	—	10.3
March .....	7.5	7.8	20.5	17.1	5.8	43.4	3.0	3.1	7.2	3.0	—	10.2
April .....	7.7	8.0	20.6	16.9	3.9	41.3	3.0	3.0	7.3	3.0	—	10.3
May .....	8.0	8.2	21.2	17.8	5.2	44.1	3.0	3.0	7.5	3.1	—	10.6
June .....	8.4	8.6	21.6	18.5	4.8	44.9	3.2	3.2	7.8	3.3	—	11.0
July .....	8.1	8.3	20.8	17.6	5.5	44.0	3.0	3.0	7.6	3.2	—	10.8
August .....	8.2	8.5	21.0	18.0	6.6	45.7	3.1	3.1	7.6	3.3	—	10.9
September .....	8.0	8.3	20.4	W	W	43.0	3.2	3.2	7.4	3.0	—	10.5
October .....	7.7	8.0	20.5	W	W	42.8	3.0	3.0	W	W	—	10.5
November .....	7.8	8.1	20.6	16.9	6.5	44.1	3.0	3.1	7.5	3.0	—	10.5
December .....	7.9	8.1	20.8	W	W	42.2	3.1	3.2	7.6	3.0	—	10.6
<b>1995</b> .....	<b>7.8</b>	<b>8.1</b>	<b>20.7</b>	<b>W</b>	<b>W</b>	<b>43.3</b>	<b>3.0</b>	<b>3.1</b>	<b>7.4</b>	<b>3.1</b>	<b>—</b>	<b>10.5</b>
<b>1996</b>												
January .....	7.5	7.8	19.3	15.7	3.8	38.7	2.9	3.0	7.0	2.7	—	9.7
February .....	7.7	8.0	20.3	16.9	5.9	43.1	3.0	3.0	7.4	3.0	—	10.4
March .....	8.4	8.7	21.7	17.3	5.6	44.7	3.1	3.2	7.5	3.0	—	10.5
April .....	9.8	10.2	25.8	20.0	7.9	53.7	3.3	3.3	8.1	3.4	—	11.4
May .....	11.3	11.7	28.9	22.2	11.1	62.3	3.3	3.3	8.2	3.5	—	11.6
June .....	11.7	12.1	28.6	23.0	8.9	60.4	3.4	3.5	8.2	3.6	—	11.8
July .....	11.4	12.0	27.8	22.0	9.1	58.9	3.3	3.4	8.1	3.6	—	11.7
August .....	11.4	12.0	28.3	22.7	10.1	61.1	3.4	3.5	8.2	3.6	W	11.9
September .....	11.6	12.1	27.6	21.2	8.7	57.5	3.4	3.5	8.0	3.3	W	11.4
October .....	12.2	12.7	28.3	21.3	6.9	56.5	3.5	3.6	8.2	3.3	W	11.6
November .....	12.1	12.6	28.2	21.6	8.4	58.3	3.5	3.6	8.3	3.3	W	11.6
December .....	12.6	13.1	27.9	22.0	9.6	59.5	3.6	3.7	8.2	3.3	W	11.6
<b>1996</b> .....	<b>10.7</b>	<b>11.1</b>	<b>26.1</b>	<b>20.5</b>	<b>8.0</b>	<b>54.6</b>	<b>3.3</b>	<b>3.4</b>	<b>7.9</b>	<b>3.3</b>	<b>W</b>	<b>11.3</b>
<b>1997</b>												
January .....	11.4	11.9	27.1	20.8	8.4	56.3	3.2	3.3	7.7	W	W	10.8
February .....	12.2	12.7	28.4	21.2	7.7	57.4	3.3	3.5	8.1	W	W	11.2
March .....	12.5	13.0	28.5	21.8	8.1	58.3	3.4	3.5	8.0	W	W	11.2
April .....	12.4	12.8	29.0	21.1	7.0	57.1	3.4	3.5	7.9	W	W	11.0
May .....	12.1	12.5	27.3	22.1	8.5	57.9	3.3	3.4	7.9	3.2	0.0	11.1
June .....	12.2	12.6	27.5	22.1	7.4	56.9	3.4	3.5	7.9	W	W	11.2
July .....	13.8	14.2	27.4	22.9	7.3	57.6	3.7	3.8	8.0	W	W	11.4
August .....	14.8	15.1	28.1	23.5	8.9	60.4	3.9	4.0	8.0	W	W	11.5
September .....	14.8	15.2	27.8	W	W	57.7	3.7	3.8	7.7	W	W	10.8

See footnotes at end of table.

**Table 13. U.S. Refiner Reformulated Motor Gasoline Volumes by Grade and Sales Type**  
(Million Gallons per Day) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>1994</b> .....	<b>0.2</b>	<b>0.2</b>	<b>1.2</b>	<b>0.5</b>	<b>0.2</b>	<b>1.9</b>	<b>1.0</b>	<b>1.0</b>	<b>4.0</b>	<b>2.4</b>	<b>0.8</b>	<b>7.2</b>
<b>1995</b>												
January .....	2.7	2.8	11.4	W	W	18.1	12.6	13.0	37.9	24.6	6.1	68.6
February .....	2.9	3.0	12.0	5.5	0.9	18.4	13.4	13.8	39.8	25.7	6.0	71.5
March .....	3.5	3.6	11.8	5.6	1.3	18.6	14.0	14.5	39.5	25.6	7.0	72.1
April .....	3.1	3.1	12.0	5.5	0.8	18.2	13.7	14.1	39.8	25.3	4.7	69.8
May .....	3.0	3.0	11.8	5.6	1.0	18.4	14.0	14.3	40.5	26.5	6.2	73.2
June .....	3.1	3.2	11.9	5.7	0.8	18.4	14.7	15.0	41.3	27.5	5.6	74.4
July .....	3.1	3.1	11.7	5.5	0.8	18.0	14.1	14.5	40.1	26.4	6.3	72.8
August .....	3.2	3.3	12.2	5.9	1.5	19.5	14.6	15.0	40.8	27.2	8.2	76.1
September .....	3.2	3.3	12.2	W	W	18.9	14.4	14.8	40.0	25.6	6.8	72.4
October .....	3.2	3.2	W	5.7	W	19.8	13.9	14.2	40.2	W	W	73.1
November .....	3.3	3.3	12.6	5.8	2.1	20.5	14.1	14.4	40.8	25.7	8.6	75.0
December .....	3.2	3.3	12.6	W	W	19.7	14.2	14.6	40.9	25.3	6.2	72.5
<b>1995</b> .....	<b>3.1</b>	<b>3.2</b>	<b>12.0</b>	<b>W</b>	<b>W</b>	<b>18.9</b>	<b>14.0</b>	<b>14.4</b>	<b>40.1</b>	<b>25.9</b>	<b>6.6</b>	<b>72.6</b>
<b>1996</b>												
January .....	3.0	3.1	11.2	5.1	1.1	17.4	13.5	13.8	37.5	23.5	4.8	65.8
February .....	3.1	3.1	11.8	5.4	1.3	18.6	13.8	14.1	39.5	25.4	7.2	72.1
March .....	3.1	3.1	11.8	5.4	1.2	18.4	14.6	15.0	41.0	25.7	6.9	73.5
April .....	3.0	3.1	12.1	5.4	1.5	19.1	16.1	16.6	46.0	28.8	9.5	84.2
May .....	2.8	2.9	11.0	5.1	1.7	17.9	17.4	17.9	48.1	30.8	12.8	91.8
June .....	3.0	3.1	11.6	5.5	2.3	19.3	18.1	18.6	48.4	32.0	11.2	91.5
July .....	3.1	3.2	11.5	5.6	1.6	18.7	17.8	18.6	47.4	31.2	10.7	89.3
August .....	3.2	3.3	12.0	5.7	1.5	19.2	18.0	18.8	48.6	32.1	11.6	92.3
September .....	3.2	3.3	11.9	5.2	1.9	19.0	18.2	18.9	47.5	29.7	10.6	87.8
October .....	3.2	3.3	12.0	5.3	1.4	18.7	18.8	19.6	48.5	30.0	8.3	86.8
November .....	3.2	3.3	12.0	5.2	1.3	18.5	18.8	19.5	48.5	30.1	9.8	88.4
December .....	3.2	3.3	11.6	5.2	1.6	18.4	19.4	20.2	47.6	30.5	11.3	89.4
<b>1996</b> .....	<b>3.1</b>	<b>3.2</b>	<b>11.7</b>	<b>5.3</b>	<b>1.5</b>	<b>18.6</b>	<b>17.0</b>	<b>17.6</b>	<b>45.7</b>	<b>29.2</b>	<b>9.6</b>	<b>84.5</b>
<b>1997</b>												
January .....	2.9	3.0	11.0	W	W	16.8	17.5	18.2	45.9	28.6	9.5	83.9
February .....	3.0	3.1	11.5	W	W	17.1	18.6	19.3	48.0	29.2	8.5	85.6
March .....	3.1	3.3	11.6	W	W	18.2	19.1	19.8	48.1	30.0	9.6	87.7
April .....	3.2	3.4	11.7	W	W	18.2	19.0	19.8	48.6	29.3	8.4	86.3
May .....	3.2	3.4	11.5	5.6	1.5	18.6	18.6	19.4	46.7	30.9	10.0	87.6
June .....	3.4	3.6	11.8	W	W	19.0	18.9	19.7	47.2	30.9	9.0	87.0
July .....	3.7	3.9	11.8	W	W	19.0	21.2	21.9	47.2	32.1	8.6	88.0
August .....	3.6	3.8	11.4	W	W	18.5	22.3	22.9	47.5	32.5	10.3	90.4
September .....	3.4	3.7	W	5.2	W	17.1	22.0	22.7	W	30.6	W	85.6

Dash (–) = No data reported.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*. Totals may not equal the sum of the components due to rounding.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 14. U.S. Propane (Consumer Grade) Prices by Sales Type**  
(Cents per Gallon Excluding Taxes)

Year Month	Sales to End Users							Sales for Resale
	Residential Consumers	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets	Petro- Chemical	Other End Users	Average	
<b>1994</b> .....	<b>87.2</b>	<b>76.5</b>	<b>65.2</b>	<b>73.6</b>	<b>31.1</b>	<b>63.4</b>	<b>77.6</b>	<b>33.6</b>
<b>1995</b>								
January .....	86.8	78.4	67.5	74.5	34.5	66.4	79.6	36.5
February .....	88.2	78.3	66.1	73.6	32.2	66.8	80.5	35.3
March .....	87.9	78.3	66.0	73.8	32.6	68.4	79.5	35.2
April .....	88.3	78.4	63.4	74.1	32.4	70.4	75.9	34.2
May .....	89.9	78.0	65.2	76.4	32.8	74.5	73.9	34.5
June .....	89.5	77.9	66.1	76.5	32.5	72.5	73.1	33.6
July .....	84.9	77.6	63.7	75.8	31.9	67.5	70.0	33.1
August .....	81.0	76.1	62.3	75.4	31.5	65.7	70.5	34.1
September .....	81.0	76.0	61.1	74.4	31.8	62.3	71.1	34.8
October .....	83.2	75.5	63.1	74.8	31.7	60.2	72.0	35.1
November .....	84.8	77.1	64.7	73.6	31.4	65.4	76.8	35.5
December .....	88.5	78.9	63.9	73.7	32.5	69.8	81.2	38.7
<b>1995</b> .....	<b>86.5</b>	<b>77.7</b>	<b>64.6</b>	<b>74.7</b>	<b>32.4</b>	<b>66.2</b>	<b>76.6</b>	<b>35.4</b>
<b>1996</b>								
January .....	92.8	82.5	68.1	NA	34.5	71.8	86.3	42.3
February .....	96.1	84.9	70.3	81.9	38.3	75.2	88.5	45.1
March .....	96.3	86.1	70.1	68.7	36.5	75.5	87.7	42.3
April .....	96.0	84.3	68.3	67.1	36.2	75.5	84.8	38.9
May .....	95.0	83.3	66.8	65.5	35.7	76.8	79.9	37.5
June .....	94.5	82.8	67.9	65.7	35.3	76.3	78.6	37.3
July .....	89.3	82.9	66.2	65.5	35.4	71.1	76.6	38.0
August .....	86.5	80.6	66.1	66.0	36.9	67.5	75.6	39.6
September .....	90.7	85.0	71.4	69.7	43.8	69.5	78.4	45.8
October .....	97.4	91.0	75.6	78.3	46.1	70.0	84.0	51.5
November .....	105.7	96.6	81.8	83.7	54.2	82.5	95.9	58.3
December .....	121.3	110.0	92.3	95.0	58.4	97.3	112.5	68.4
<b>1996</b> .....	<b>99.1</b>	<b>88.4</b>	<b>73.3</b>	<b>75.7</b>	<b>41.3</b>	<b>76.4</b>	<b>88.6</b>	<b>47.1</b>
<b>1997</b>								
January .....	118.1	106.3	90.2	88.8	52.9	93.9	110.2	61.2
February .....	107.4	97.2	79.5	77.8	42.1	82.9	98.1	46.2
March .....	102.2	87.7	79.6	74.7	41.0	79.6	90.2	42.7
April .....	98.5	88.3	76.5	71.4	36.2	78.6	84.6	39.1
May .....	97.2	86.9	73.7	70.0	35.9	80.0	81.0	38.0
June .....	96.8	87.8	81.2	69.5	35.5	80.5	82.2	37.4
July .....	91.7	86.8	79.8	68.5	35.3	74.0	79.8	37.0
August .....	87.4	84.8	79.2	67.1	36.9	71.2	78.4	38.4
September .....	88.5	84.2	80.4	68.4	37.6	68.0	78.0	40.3

NA = Not available.

Notes: The 4th quarter of 1993 was a transitional period between the predecessor EIA-782 survey system and the revised EIA-782 survey system. The revised survey system contains additional product and sales categories, which may not be consistent with categories derived from the predecessor survey system. Beginning January 1994 all data are from the revised survey system and are consistent.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

**Table 15. U.S. No. 2 Distillate<sup>a</sup> Prices by Sales Type**  
(Cents per Gallon Excluding Taxes)

Year Month	Sales to End Users						Sales for Resale
	Residential Consumers	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets <sup>b</sup>	Other End Users <sup>c</sup>	Average	
<b>1983</b> .....	107.8	86.3	88.3	94.3	89.7	93.3	81.8
<b>1984</b> .....	109.1	85.7	87.0	92.0	89.2	92.6	81.9
<b>1985</b> .....	105.3	82.1	83.4	88.6	85.3	89.0	78.1
<b>1986</b> .....	83.6	51.4	53.7	59.8	56.9	61.4	48.0
<b>1987</b> .....	80.3	56.6	59.7	64.4	63.1	64.3	53.5
<b>1988</b> .....	81.3	51.9	54.2	61.6	58.7	61.2	48.2
<b>1989</b> .....	90.0	60.8	63.8	68.5	66.7	69.5	57.2
<b>1990</b> .....	106.3	75.1	78.0	85.2	82.8	84.1	70.6
<b>1991</b> .....	101.9	67.5	69.7	74.5	73.8	76.0	62.7
<b>1992</b> .....	93.4	63.7	67.5	72.1	72.1	72.6	59.1
<b>1993</b> .....	91.1	62.0	66.7	71.1	70.5	71.0	56.6
<b>1994</b> .....	88.4	58.7	64.1	67.3	65.5	67.5	52.9
<b>1995</b>							
January .....	86.9	57.5	61.9	65.6	64.6	68.5	50.7
February .....	87.4	57.8	61.9	65.0	64.0	69.1	50.8
March .....	86.6	57.3	62.6	65.1	65.3	66.8	50.8
April .....	85.4	59.6	65.0	66.8	67.9	67.0	53.9
May .....	86.4	60.7	66.0	68.5	69.2	67.0	55.4
June .....	84.6	58.3	64.0	67.4	67.7	64.4	52.5
July .....	82.0	56.9	62.3	65.9	66.1	62.8	51.4
August .....	80.7	58.8	64.2	66.5	66.4	64.1	54.1
September .....	82.3	60.0	65.2	67.9	69.1	66.1	55.3
October .....	84.0	59.5	64.9	67.5	68.8	66.3	54.2
November .....	86.3	61.4	66.3	68.0	68.1	69.2	55.8
December .....	91.1	63.6	67.8	69.1	69.1	73.5	57.9
<b>1995</b> .....	86.7	59.3	64.4	67.0	67.3	67.3	53.6
<b>1996</b>							
January .....	94.6	63.7	67.5	69.9	69.6	75.2	57.3
February .....	95.9	65.0	68.8	70.7	70.6	75.6	59.1
March .....	99.1	68.4	73.1	75.1	74.7	78.1	63.2
April .....	101.5	75.2	80.1	82.6	82.8	82.5	69.9
May .....	97.8	72.7	79.0	81.2	80.4	79.0	66.1
June .....	91.0	65.2	72.4	74.5	74.5	71.5	58.6
July .....	87.9	65.5	72.1	73.2	74.4	71.1	60.1
August .....	88.1	69.5	75.8	75.8	77.7	74.4	64.9
September .....	94.5	75.9	82.3	81.7	83.9	81.1	71.3
October .....	102.6	79.5	85.4	86.4	87.9	86.0	75.0
November .....	105.4	78.6	84.1	86.7	86.7	87.1	73.2
December .....	107.5	77.7	82.9	85.5	84.8	87.9	71.8
<b>1996</b> .....	98.9	71.4	77.1	78.8	79.3	79.3	66.0
<b>1997</b>							
January .....	107.9	76.9	81.7	84.0	83.6	88.2	70.7
February .....	105.1	74.5	79.5	81.8	82.0	84.8	67.1
March .....	101.6	69.3	73.0	76.3	76.9	78.6	61.7
April .....	99.2	67.7	72.1	75.4	77.0	75.8	61.8
May .....	96.3	66.3	71.0	74.4	76.0	73.3	60.8
June .....	92.3	63.1	67.8	71.9	73.2	69.8	56.8
July .....	88.3	62.0	66.6	70.2	71.0	68.0	56.2
August .....	86.9	64.3	68.6	71.7	73.2	70.0	58.8
September .....	88.6	63.6	68.5	71.1	73.4	70.0	57.9

<sup>a</sup> Includes sales of No. 2 fuel oil and high- and low-sulfur diesel fuels.

<sup>b</sup> Includes low-sulfur diesel fuel only.

<sup>c</sup> All end-user sales not included in the other end-user categories shown, e.g., sales to agricultural customers or utilities.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

**Table 16. U.S. No. 2 Diesel Fuel Prices by Sales Type**  
(Cents per Gallon Excluding Taxes)

Year Month	Sales to End Users					Sales for Resale
	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets <sup>a</sup>	Other End Users <sup>b</sup>	Average	
<b>1994</b> .....	<b>57.7</b>	<b>64.5</b>	<b>67.3</b>	<b>66.1</b>	<b>62.8</b>	<b>53.8</b>
<b>1995</b>						
January .....	55.8	62.0	65.6	64.5	61.0	51.1
February .....	56.0	62.1	65.0	64.0	60.9	51.5
March .....	56.2	62.8	65.1	65.5	61.3	52.0
April .....	59.3	65.4	66.8	68.2	63.9	55.4
May .....	60.5	66.5	68.5	69.6	65.3	56.4
June .....	58.3	64.5	67.4	68.2	63.6	53.3
July .....	56.9	63.0	65.9	66.5	62.1	52.2
August .....	58.9	64.8	66.5	67.2	63.4	54.9
September .....	60.0	65.9	67.9	69.4	64.8	56.3
October .....	59.5	65.8	67.5	69.2	64.6	55.3
November .....	60.9	67.0	68.0	68.3	65.2	57.0
December .....	62.3	68.2	69.1	69.3	66.4	58.2
<b>1995</b> .....	<b>58.8</b>	<b>64.9</b>	<b>67.0</b>	<b>67.7</b>	<b>63.6</b>	<b>54.6</b>
<b>1996</b>						
January .....	61.7	67.5	69.9	69.4	66.3	57.0
February .....	63.1	68.9	70.7	70.5	67.4	58.8
March .....	67.2	73.2	75.1	74.6	71.7	63.0
April .....	74.9	80.6	82.6	82.9	79.5	70.7
May .....	72.9	79.7	81.2	81.0	77.6	67.5
June .....	65.4	73.1	74.5	75.1	70.9	59.9
July .....	65.7	72.7	73.2	74.9	70.5	60.8
August .....	69.6	76.2	75.8	78.0	73.8	65.6
September .....	76.1	82.8	81.7	84.1	80.0	72.3
October .....	79.4	85.8	86.4	88.2	84.0	75.9
November .....	78.3	84.5	86.7	87.2	83.1	74.1
December .....	76.7	83.1	85.5	84.9	81.6	71.8
<b>1996</b> .....	<b>71.1</b>	<b>77.5</b>	<b>78.8</b>	<b>79.6</b>	<b>75.7</b>	<b>66.7</b>
<b>1997</b>						
January .....	75.5	81.8	84.0	83.8	80.3	70.7
February .....	73.6	79.5	81.8	82.2	78.3	68.4
March .....	68.4	73.2	76.3	77.1	73.1	63.4
April .....	67.2	72.5	75.4	77.4	72.3	62.8
May .....	66.0	71.3	74.4	76.3	71.4	61.3
June .....	62.8	68.1	71.9	73.6	68.6	57.3
July .....	61.8	67.0	70.2	71.8	67.2	56.6
August .....	64.3	69.2	71.7	73.8	69.2	59.6
September .....	63.5	69.3	71.1	73.9	68.6	58.7

<sup>a</sup> Includes low-sulfur diesel fuel only.

<sup>b</sup> All end-user sales not included in the other end-user categories shown, e.g., sales to agricultural customers or utilities.

Notes: The 4th quarter of 1993 was a transitional period between the predecessor EIA-782 survey system and the revised EIA-782 survey system. The revised survey system contains additional product and sales categories, which may not be consistent with categories derived from the predecessor survey system. Beginning January 1994 all data are from the revised survey system and are consistent.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

**Table 17. U.S. No. 2 Diesel Fuel Prices by Sulfur Content and Sales Type**  
(Cents per Gallon Excluding Taxes)

Year Month	Low-Sulfur Diesel Fuel						High-Sulfur Diesel Fuel				
	Sales to End Users					Sales for Resale	Sales to End Users				Sales for Resale
	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets	Other End Users <sup>a</sup>	Average		Commercial/ Institutional Consumers	Industrial Consumers	Other End Users <sup>a</sup>	Average	
<b>1994</b> .....	<b>59.1</b>	<b>66.0</b>	<b>67.3</b>	<b>67.4</b>	<b>64.2</b>	<b>54.2</b>	<b>55.3</b>	<b>62.9</b>	<b>64.6</b>	<b>59.8</b>	<b>51.9</b>
<b>1995</b>											
January .....	56.9	63.4	65.6	64.6	62.1	51.4	54.0	60.9	64.4	58.4	49.7
February .....	56.9	63.4	65.0	64.4	61.7	51.9	54.2	60.9	63.5	58.6	49.9
March .....	57.6	64.4	65.1	66.2	62.4	52.6	53.7	61.4	64.5	58.7	49.4
April .....	60.6	67.4	66.8	68.8	64.9	56.0	56.8	63.6	67.4	61.6	52.6
May .....	61.5	67.7	68.5	70.4	66.1	56.9	58.6	65.4	68.6	63.3	54.4
June .....	59.2	65.3	67.4	68.7	64.4	53.7	56.8	63.7	67.5	61.7	51.6
July .....	57.8	63.8	65.9	67.3	63.0	52.7	55.3	62.1	65.5	59.9	50.2
August .....	59.7	66.3	66.5	68.3	64.3	55.4	57.2	63.3	65.9	61.3	52.5
September .....	61.1	67.3	67.9	70.4	65.8	56.8	57.8	64.5	68.1	62.5	53.8
October .....	60.3	67.5	67.5	70.0	65.3	55.9	57.9	64.1	68.2	62.7	52.9
November .....	61.8	68.5	68.0	69.5	65.9	57.5	59.1	65.6	66.8	63.2	54.6
December .....	63.6	69.4	69.1	70.3	67.3	58.8	59.8	67.0	68.0	64.1	55.8
<b>1995</b> .....	<b>59.8</b>	<b>66.3</b>	<b>67.0</b>	<b>68.4</b>	<b>64.5</b>	<b>55.1</b>	<b>56.8</b>	<b>63.6</b>	<b>66.7</b>	<b>61.4</b>	<b>52.4</b>
<b>1996</b>											
January .....	62.7	68.1	69.9	69.7	67.1	57.5	59.9	66.9	68.8	64.1	55.1
February .....	64.2	70.1	70.7	71.2	68.3	59.3	61.1	67.8	69.6	65.2	56.9
March .....	68.7	74.6	75.1	75.3	72.7	63.6	64.2	71.6	73.6	68.7	59.9
April .....	76.7	82.7	82.6	84.5	80.8	71.8	71.4	78.1	80.8	75.9	65.8
May .....	74.4	82.6	81.2	83.4	79.1	68.4	70.4	76.6	78.3	74.2	63.2
June .....	66.5	75.7	74.5	76.7	72.0	60.4	63.5	70.5	73.3	68.2	57.7
July .....	67.0	74.4	73.2	75.8	71.4	61.4	63.4	71.0	73.9	68.2	58.3
August .....	71.1	78.0	75.8	79.6	74.8	66.1	67.0	74.3	76.2	71.2	63.1
September .....	77.0	84.5	81.7	85.1	80.7	72.5	74.3	80.9	82.7	78.3	70.9
October .....	81.0	87.0	86.4	89.1	84.9	76.3	76.6	84.6	86.9	81.6	74.0
November .....	79.4	85.4	86.7	87.6	84.0	74.6	76.3	83.5	86.8	81.0	71.9
December .....	77.8	84.0	85.5	84.9	82.4	72.2	74.8	82.2	84.9	79.3	70.3
<b>1996</b> .....	<b>72.3</b>	<b>79.1</b>	<b>78.8</b>	<b>80.6</b>	<b>76.7</b>	<b>67.3</b>	<b>68.7</b>	<b>75.9</b>	<b>78.4</b>	<b>73.2</b>	<b>63.9</b>
<b>1997</b>											
January .....	76.6	82.9	84.0	84.0	81.2	71.1	73.5	80.8	83.5	78.0	69.4
February .....	74.8	81.7	81.8	82.5	79.3	68.9	71.3	77.5	81.7	75.4	66.4
March .....	69.1	74.8	76.3	77.2	73.8	64.0	66.8	71.7	77.1	70.7	60.8
April .....	67.8	74.1	75.4	77.4	72.9	63.2	65.6	71.0	77.4	70.6	60.5
May .....	66.4	72.0	74.4	76.4	71.9	61.8	64.9	70.5	76.2	69.8	59.1
June .....	63.1	68.6	71.9	73.9	69.1	57.6	62.2	67.7	73.1	66.8	56.1
July .....	61.8	67.5	70.2	71.9	67.6	56.9	61.8	66.6	71.5	66.0	55.2
August .....	64.5	69.9	71.7	74.4	69.7	59.9	63.9	68.4	72.8	67.6	58.0
September .....	63.6	70.4	71.1	74.3	69.0	58.8	63.3	68.0	73.3	67.4	57.9

<sup>a</sup> All end-user sales not included in the other end-user categories shown, e.g., sales to agricultural customers or utilities.

Notes: The 4th quarter of 1993 was a transitional period between the predecessor EIA-782 survey system and the revised EIA-782 survey system. The revised survey system contains additional product and sales categories, which may not be consistent with categories derived from the predecessor survey system. Beginning January 1994 all data are from the revised survey system and are consistent.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."



**Table 18. Prices of No. 2 Distillate to Residences by PAD District  
and Selected States**  
(Cents per Gallon Excluding Taxes)

Year Month	U.S. Average	PAD District I								
		Average	CT	ME	MA	NH	RI	VT	DE	DC
1978 .....	49.0	—	50.1	48.6	48.8	50.3	50.7	50.8	47.8	50.7
1979 .....	70.4	—	72.0	68.8	70.9	72.5	72.8	72.5	68.2	74.2
1980 .....	97.4	—	98.3	96.3	97.8	100.4	101.1	101.5	95.4	102.6
1981 .....	119.4	—	121.7	120.4	121.3	123.7	123.8	125.4	117.3	127.4
1982 .....	116.0	—	118.3	115.5	117.6	117.4	120.1	120.1	111.3	124.5
1983 .....	107.8	109.0	109.1	102.8	109.1	104.1	110.5	112.9	106.0	117.0
1984 .....	109.1	111.3	112.1	103.9	111.6	108.4	111.4	111.9	109.6	118.7
1985 .....	105.3	106.8	108.0	99.7	107.0	102.4	106.7	107.7	104.6	114.3
1986 .....	83.6	86.2	89.0	74.4	82.1	75.9	82.8	86.6	85.0	93.1
1987 .....	80.3	81.4	83.4	74.7	80.6	76.5	82.5	81.1	79.3	91.8
1988 .....	81.3	82.7	85.3	77.7	82.1	78.2	83.6	82.6	80.1	91.6
1989 .....	90.0	91.7	92.9	89.4	92.6	89.3	93.9	90.5	88.2	98.6
1990 .....	106.3	108.1	109.8	98.9	108.4	102.8	108.6	107.0	105.8	107.8
1991 .....	101.9	104.1	106.2	96.0	103.0	91.6	99.9	101.9	99.7	112.2
1992 .....	93.4	94.9	94.7	87.1	92.5	85.6	91.2	92.1	92.3	105.7
1993 .....	91.1	92.1	91.9	82.6	89.7	82.8	89.3	90.4	89.9	104.5
1994 .....	88.4	89.4	89.0	81.8	87.0	79.2	88.5	87.6	89.4	100.0
1995										
January .....	86.9	87.6	86.7	77.8	84.8	78.4	87.3	85.7	88.4	102.4
February .....	87.4	88.2	87.8	77.4	84.9	78.5	87.3	85.9	88.5	103.4
March .....	86.6	87.3	87.0	76.3	82.5	77.7	87.0	85.6	87.6	103.3
April .....	85.4	85.8	85.2	76.7	81.9	76.6	86.5	84.8	87.0	100.0
May .....	86.4	86.9	86.5	78.7	84.7	75.8	86.1	84.5	85.2	93.2
June .....	84.6	85.2	84.2	78.1	82.5	74.5	83.2	83.9	83.0	NA
July .....	82.0	82.4	79.4	76.9	80.6	72.9	81.7	81.7	80.0	85.1
August .....	80.7	81.1	77.4	76.7	80.9	73.0	85.3	81.7	82.1	W
September .....	82.3	82.7	79.2	76.2	81.7	73.8	84.9	82.5	82.4	86.1
October .....	84.0	84.5	83.1	75.8	82.3	73.9	85.7	82.5	84.0	NA
November .....	86.3	86.8	85.7	79.1	83.8	77.3	87.4	84.5	84.5	100.2
December .....	91.1	92.1	90.5	87.0	88.9	83.8	91.8	88.0	89.5	103.8
1995 .....	86.7	87.5	86.4	78.7	84.4	77.9	87.4	85.3	87.0	101.0
1996										
January .....	94.6	96.1	94.5	93.0	92.0	89.1	94.9	92.6	94.7	111.7
February .....	95.9	97.5	96.2	93.2	93.8	90.8	95.6	93.7	94.4	112.9
March .....	99.1	100.6	99.6	96.7	99.3	93.8	99.7	97.3	96.1	117.7
April .....	101.5	102.7	102.1	98.7	101.5	96.5	98.8	100.3	100.7	115.9
May .....	97.8	98.1	96.8	95.4	95.9	93.6	94.9	98.8	98.0	109.7
June .....	91.0	91.3	88.8	90.1	87.9	87.2	88.7	92.2	91.9	102.5
July .....	87.9	88.0	84.9	87.5	87.5	83.6	87.7	88.5	91.0	97.3
August .....	88.1	88.2	84.0	89.5	89.0	85.1	88.3	89.0	91.0	99.2
September .....	94.5	94.4	92.5	96.4	93.1	91.9	96.6	94.4	95.3	106.2
October .....	102.6	103.5	103.0	101.1	103.0	99.1	104.0	100.7	103.1	120.9
November .....	105.4	106.1	105.0	103.4	103.7	99.7	104.5	101.9	105.9	125.7
December .....	107.5	108.5	108.1	105.1	105.9	101.6	106.4	103.6	106.7	129.2
1996 .....	98.9	100.0	98.6	97.2	97.6	94.0	98.6	96.9	98.4	117.8
1997										
January .....	107.9	109.0	108.7	105.2	106.4	102.2	106.9	104.4	106.5	130.9
February .....	105.1	106.0	105.2	102.2	103.4	101.0	104.5	103.5	104.2	127.0
March .....	101.6	102.5	99.3	94.3	97.7	98.6	100.6	103.1	99.4	122.1
April .....	99.2	100.2	97.6	90.9	95.9	95.2	99.6	100.4	99.1	W
May .....	96.3	97.1	93.4	90.6	93.0	91.9	97.3	97.7	95.0	108.6
June .....	92.3	93.0	89.9	88.0	89.1	89.1	94.1	92.9	89.8	99.9
July .....	88.3	88.8	83.7	86.7	87.5	85.6	91.8	91.1	87.3	99.9
August .....	86.9	86.7	84.5	85.7	84.7	85.3	91.0	92.7	87.8	W
September .....	88.6	88.9	85.5	87.2	86.9	86.4	91.2	91.7	NA	96.6

See footnotes at end of table.

**Table 18. Prices of No. 2 Distillate to Residences by PAD District and Selected States**

(Cents per Gallon Excluding Taxes) — Continued

Year Month	PAD District I (Continued)						PAD District II			
	MD	NJ	NY	PA	VA	WV	Average	IL	IN	MI
<b>1978</b> .....	49.2	49.6	50.1	48.8	49.1	46.2	—	46.5	48.5	47.9
<b>1979</b> .....	70.1	71.0	71.2	69.8	70.4	65.1	—	68.8	72.7	70.9
<b>1980</b> .....	97.9	97.9	98.2	96.4	98.5	92.2	—	95.8	99.6	97.8
<b>1981</b> .....	121.4	121.5	123.2	118.1	120.5	115.0	—	114.9	118.5	118.3
<b>1982</b> .....	117.1	117.4	120.5	113.7	117.7	109.3	—	110.9	114.3	113.9
<b>1983</b> .....	110.3	107.9	112.1	105.8	108.7	101.0	102.0	100.4	100.7	106.4
<b>1984</b> .....	113.5	111.0	115.5	107.9	110.5	102.1	101.7	100.1	103.1	105.0
<b>1985</b> .....	108.8	105.9	111.3	102.3	106.3	98.0	99.4	97.5	99.1	102.1
<b>1986</b> .....	91.4	90.2	91.1	81.4	86.6	74.6	72.7	NA	74.8	81.0
<b>1987</b> .....	86.6	84.3	85.2	76.9	79.5	76.4	74.8	79.8	75.4	77.5
<b>1988</b> .....	87.0	84.8	86.3	77.8	80.5	74.2	74.3	77.6	75.4	77.5
<b>1989</b> .....	93.8	91.8	95.8	85.1	87.0	83.0	81.9	80.9	83.2	85.3
<b>1990</b> .....	111.9	108.8	112.5	102.6	110.6	99.1	97.8	96.1	99.3	100.9
<b>1991</b> .....	108.4	104.0	111.3	99.7	101.1	93.4	90.8	92.7	91.8	94.2
<b>1992</b> .....	100.0	93.9	102.8	89.0	92.8	86.4	82.9	87.7	81.2	87.2
<b>1993</b> .....	98.1	92.4	100.1	86.3	89.3	85.6	83.3	84.4	81.0	87.2
<b>1994</b> .....	95.0	89.5	96.6	85.7	85.3	80.9	80.8	78.4	81.2	86.3
<b>1995</b>										
January .....	94.3	87.6	95.2	83.1	85.0	83.1	81.0	82.1	81.6	86.1
February .....	95.1	89.0	96.3	83.4	84.6	82.1	80.5	80.8	80.1	85.5
March .....	94.2	89.0	95.9	82.3	84.0	81.4	80.6	76.7	82.3	85.7
April .....	91.3	87.1	94.1	80.7	84.0	80.3	81.2	78.7	82.3	86.2
May .....	89.6	88.2	95.9	81.1	83.0	76.5	81.6	81.6	83.6	86.1
June .....	86.8	87.7	95.0	79.5	82.3	77.7	78.9	77.0	83.5	83.6
July .....	83.3	85.4	92.3	75.8	81.2	75.8	77.7	76.6	81.9	82.0
August .....	82.6	82.2	89.8	75.6	80.9	74.1	76.3	72.9	79.4	82.1
September .....	85.5	83.9	90.5	77.2	81.6	76.1	79.3	75.6	80.9	84.5
October .....	89.5	85.2	92.7	79.6	82.5	77.4	79.7	74.6	81.8	83.9
November .....	93.2	88.1	94.3	81.9	83.8	81.4	81.5	79.0	79.2	86.9
December .....	98.5	94.3	99.4	87.1	88.2	89.4	83.4	82.9	83.6	88.8
<b>1995</b> .....	<b>93.6</b>	<b>88.8</b>	<b>95.5</b>	<b>82.6</b>	<b>84.4</b>	<b>81.5</b>	<b>80.9</b>	<b>78.5</b>	<b>81.6</b>	<b>86.0</b>
<b>1996</b>										
January .....	103.9	97.8	102.9	92.3	91.3	90.7	84.4	84.4	85.6	89.6
February .....	104.1	100.5	104.1	93.1	92.8	93.8	85.7	85.8	86.4	91.2
March .....	106.4	103.5	106.6	95.9	93.6	95.8	89.4	88.7	90.7	97.0
April .....	105.8	105.4	109.0	97.1	95.4	97.0	93.4	90.4	93.5	101.0
May .....	104.4	98.2	105.2	92.9	91.7	91.4	92.6	89.9	93.0	99.6
June .....	97.3	91.8	101.4	83.9	88.2	89.9	86.3	80.6	86.2	94.6
July .....	93.7	89.7	97.2	79.4	88.5	88.6	85.9	78.9	85.6	92.2
August .....	93.7	90.6	93.4	82.0	89.1	88.9	86.0	83.0	87.4	92.5
September .....	99.3	97.3	99.1	88.9	92.6	94.9	92.2	87.1	92.8	98.6
October .....	108.1	105.7	107.9	99.4	98.6	101.1	96.8	92.4	96.6	102.6
November .....	111.8	108.8	111.6	102.2	102.2	104.6	100.7	96.8	102.4	106.4
December .....	114.9	111.1	114.4	104.0	104.3	104.3	100.5	98.1	100.8	106.4
<b>1996</b> .....	<b>106.3</b>	<b>102.4</b>	<b>106.3</b>	<b>95.3</b>	<b>95.2</b>	<b>96.0</b>	<b>91.3</b>	<b>89.3</b>	<b>91.2</b>	<b>97.7</b>
<b>1997</b>										
January .....	117.0	111.3	114.7	104.2	105.5	103.8	99.7	98.8	100.9	105.6
February .....	115.0	108.4	112.0	102.2	102.6	101.2	97.6	93.3	97.0	104.4
March .....	108.1	104.6	111.5	97.7	100.4	98.1	93.3	90.2	94.6	NA
April .....	105.6	102.5	109.7	95.0	96.7	95.7	90.6	83.4	NA	91.7
May .....	101.9	99.9	107.9	92.4	89.9	92.9	90.1	79.9	88.4	90.7
June .....	98.0	96.9	103.9	87.8	87.8	90.6	87.3	79.7	84.0	88.3
July .....	96.1	90.5	100.0	82.1	85.9	87.4	83.1	78.4	79.7	84.9
August .....	93.8	89.6	92.9	80.7	85.2	85.0	84.4	81.2	83.6	87.4
September .....	94.5	90.6	94.5	82.8	85.2	87.5	84.6	77.3	80.2	88.3

See footnotes at end of table.

**Table 18. Prices of No. 2 Distillate to Residences by PAD District and Selected States**

(Cents per Gallon Excluding Taxes) — Continued

Year Month	PAD District II (Continued)			PAD District III Average	PAD District IV		PAD District V			
	MN	OH	WI		Average	ID	Average	AK	OR	WA
1978 .....	47.8	47.4	44.7	—	—	43.6	—	53.2	45.8	48.6
1979 .....	72.4	68.6	67.3	—	—	62.1	—	68.2	68.0	69.7
1980 .....	99.9	91.9	91.5	—	—	91.6	—	97.8	97.3	100.8
1981 .....	118.4	113.2	109.1	—	—	110.4	—	118.0	111.4	116.5
1982 .....	115.1	110.2	107.8	—	—	110.4	—	117.4	111.6	117.6
1983 .....	103.1	101.3	101.2	87.4	94.2	101.8	106.4	108.8	103.6	109.0
1984 .....	104.1	102.1	101.0	97.9	96.8	98.5	101.5	106.9	99.3	102.6
1985 .....	101.9	99.7	98.3	92.5	96.1	97.2	100.9	108.3	97.1	101.1
1986 .....	79.2	77.7	75.6	67.4	70.6	73.8	78.1	94.9	70.4	77.5
1987 .....	74.6	74.7	75.1	63.7	69.6	68.8	77.8	86.5	72.5	79.5
1988 .....	73.5	74.7	73.9	62.8	69.1	68.8	76.9	86.9	70.9	78.5
1989 .....	82.4	81.6	81.1	70.7	78.6	77.8	86.6	96.4	80.2	87.4
1990 .....	101.4	98.1	94.2	85.5	97.0	97.4	102.6	110.1	97.0	102.9
1991 .....	91.1	91.0	89.5	78.7	92.4	95.1	99.8	105.0	93.3	101.6
1992 .....	82.6	83.6	81.6	71.3	84.8	85.7	92.1	94.1	87.6	94.0
1993 .....	83.2	84.0	82.3	75.4	86.0	86.2	96.8	96.1	91.8	99.9
1994 .....	80.6	81.2	81.1	71.4	78.6	78.9	90.9	86.5	88.7	95.0
<b>1995</b>										
January .....	80.1	81.2	81.1	72.7	80.9	80.4	90.7	83.7	88.4	95.4
February .....	79.0	81.0	80.4	70.4	80.7	80.0	90.1	84.0	86.9	94.5
March .....	80.4	80.1	80.5	76.1	81.1	80.6	90.5	83.7	88.7	94.5
April .....	80.4	81.9	81.1	77.9	81.8	80.7	91.7	82.6	90.7	96.7
May .....	80.5	80.8	81.5	79.2	83.8	82.7	89.1	81.9	91.6	NA
June .....	77.3	78.0	81.3	77.0	83.0	82.8	87.9	82.7	90.1	95.2
July .....	76.6	76.6	81.0	W	81.6	82.6	85.4	81.7	NA	94.0
August .....	77.3	72.7	78.5	69.5	82.7	83.5	84.6	81.9	86.3	91.2
September .....	79.5	77.5	80.7	66.9	87.6	86.4	87.7	83.2	87.1	95.5
October .....	80.1	79.1	80.5	65.7	89.0	88.8	91.1	83.4	90.5	97.8
November .....	80.5	81.8	81.6	67.9	88.9	88.6	92.6	84.6	92.2	99.2
December .....	81.8	84.0	82.9	69.5	89.5	89.2	93.0	84.2	90.5	100.7
1995 .....	80.1	80.8	81.2	69.0	84.4	83.9	90.6	83.4	89.4	96.2
<b>1996</b>										
January .....	82.7	85.5	83.3	70.9	88.0	87.2	92.5	84.0	90.1	99.7
February .....	83.7	87.7	83.9	72.4	88.0	86.8	92.5	83.3	90.9	99.6
March .....	86.7	91.6	87.1	75.5	87.8	86.6	93.1	84.5	90.0	101.1
April .....	91.4	95.3	91.5	82.2	96.4	95.7	101.3	90.0	101.0	109.7
May .....	92.0	91.3	92.2	76.5	99.7	97.1	107.9	97.9	108.6	116.7
June .....	85.5	86.8	88.4	70.3	86.9	91.0	103.4	96.2	NA	112.8
July .....	84.3	86.5	88.6	68.2	86.9	92.3	96.2	92.7	96.4	103.8
August .....	86.2	82.2	87.8	75.7	88.8	98.4	94.3	92.3	94.3	99.8
September .....	91.8	92.8	91.1	84.0	98.8	101.3	105.5	95.7	109.1	115.8
October .....	97.8	98.2	95.6	87.1	97.9	97.8	106.8	96.7	108.6	116.4
November .....	102.4	100.8	98.7	NA	102.4	98.1	107.4	96.9	107.5	115.3
December .....	100.4	101.5	98.9	87.4	98.3	95.4	106.7	96.4	105.1	114.9
1996 .....	90.9	92.1	89.9	77.5	94.2	93.3	99.9	90.9	98.9	108.0
<b>1997</b>										
January .....	99.2	100.7	98.3	85.5	96.6	94.9	108.5	97.1	105.8	117.6
February .....	96.9	98.4	96.8	79.7	97.1	94.5	109.0	97.5	106.7	118.8
March .....	91.7	92.6	96.7	82.0	97.3	100.6	109.1	98.7	107.5	116.6
April .....	89.7	92.4	92.9	79.0	95.7	98.3	107.6	97.5	106.1	114.9
May .....	89.1	90.1	93.4	71.0	94.5	98.4	103.8	96.4	104.6	109.1
June .....	87.4	86.8	90.8	71.3	83.8	92.3	102.4	96.0	100.2	112.2
July .....	84.8	83.1	86.7	70.8	90.0	90.3	103.2	97.5	96.9	NA
August .....	86.0	81.7	86.5	72.8	88.2	90.5	101.6	96.4	99.2	108.8
September .....	84.7	84.3	87.4	72.2	90.0	91.3	103.8	96.7	101.7	111.5

Dash (—) = No data reported.

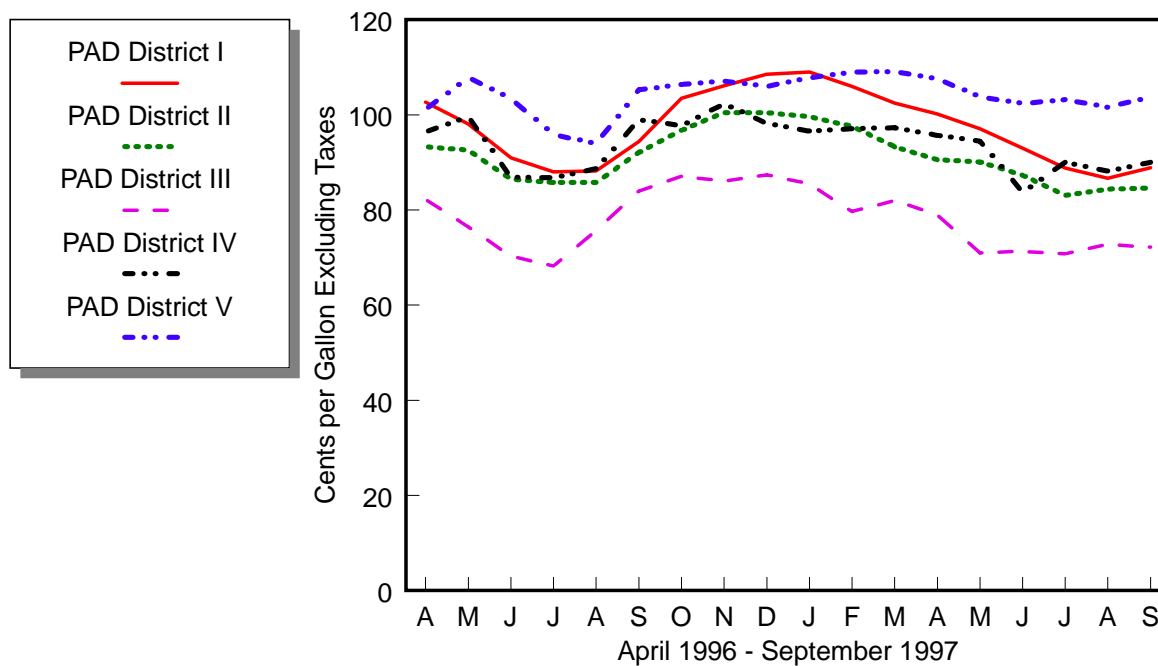
NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the Petroleum Marketing Annual.

Sources: Energy Information Administration Forms EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers/Retailers' Monthly Petroleum Product Sales Report," January 1983 forward; Form EIA-9A, "No. 2 Distillate Price Monitoring Report," source for backcast estimates prior to January 1983.

Figure 6. U.S. No. 2 Distillate Prices to Residences by PAD District



Source: Energy Information Administration, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and Form EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

**Table 19. U.S. Refiner Residual Fuel Oil Prices**

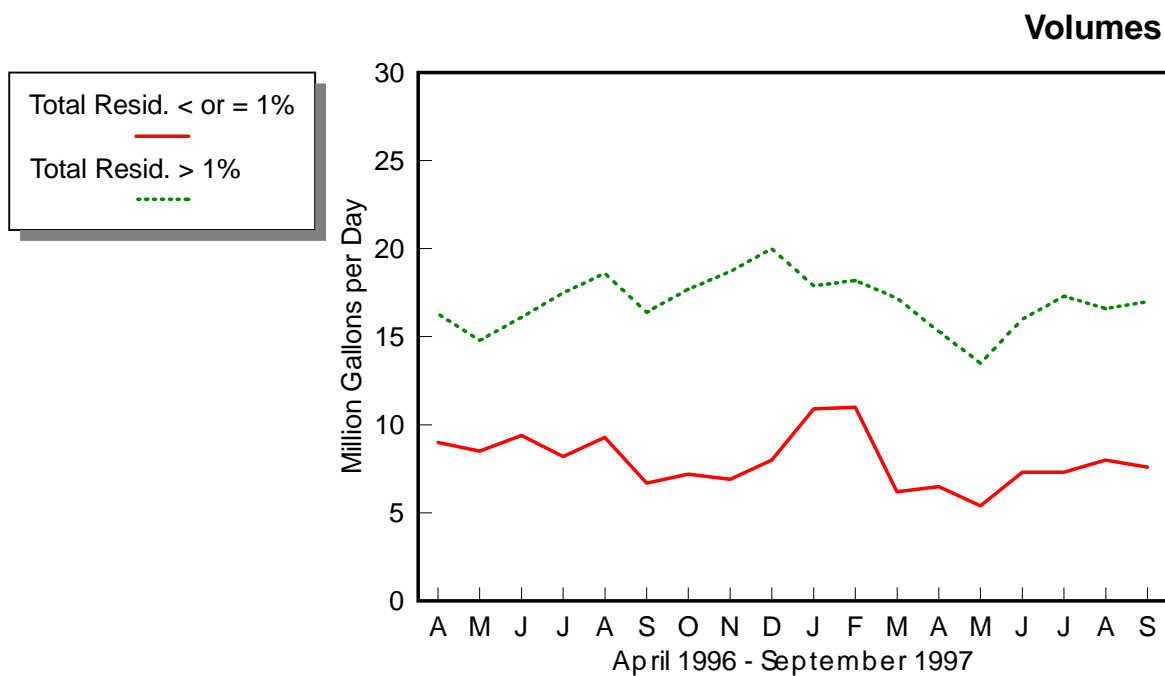
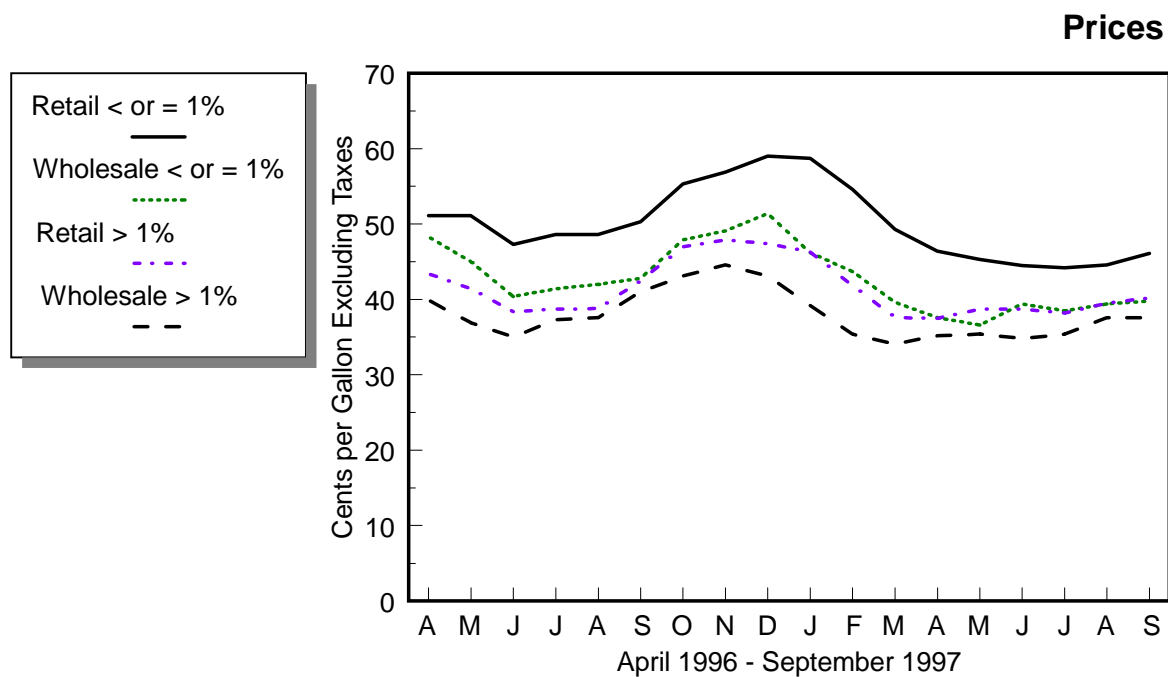
(Cents per Gallon Excluding Taxes)

Year Month	Sulfur Less Than or Equal to 1 Percent		Sulfur Greater Than 1 Percent		Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
1978 .....	31.4	29.3	27.5	24.5	29.8	26.3
1979 .....	46.8	45.0	38.9	36.6	43.6	39.9
1980 .....	67.5	60.8	52.3	47.9	60.7	52.8
1981 .....	82.9	74.8	67.3	62.2	75.6	66.3
1982 .....	74.7	69.5	61.1	57.2	67.6	61.2
1983 .....	69.5	64.3	61.1	59.1	65.1	60.9
1984 .....	72.0	68.5	65.9	63.9	68.7	65.4
1985 .....	64.4	61.0	58.2	56.0	61.0	57.7
1986 .....	37.2	32.8	31.7	28.9	34.3	30.5
1987 .....	44.7	41.2	39.6	36.2	42.3	38.5
1988 .....	37.2	33.3	30.0	27.1	33.4	30.0
1989 .....	43.6	40.7	34.4	33.1	38.5	36.0
1990 .....	50.5	47.2	40.0	37.2	44.4	41.3
1991 .....	40.2	36.4	30.6	29.2	34.0	31.4
1992 .....	38.9	35.1	31.2	28.6	33.6	30.8
1993 .....	39.7	33.7	30.3	25.6	33.7	29.3
1994 .....	40.1	34.5	33.0	28.7	35.2	31.7
<b>1995</b> .....						
January .....	46.0	39.1	37.9	33.3	40.2	36.6
February .....	43.7	37.1	38.2	33.3	39.8	35.4
March .....	43.4	38.3	39.6	35.2	40.5	37.0
April .....	42.6	36.8	39.6	36.1	40.3	36.5
May .....	43.6	40.4	41.7	37.3	42.2	38.8
June .....	45.1	39.9	41.3	36.9	42.1	38.7
July .....	42.9	36.8	36.4	32.5	38.1	35.3
August .....	39.1	35.5	33.7	29.8	35.1	33.1
September .....	39.0	36.4	34.0	30.4	35.1	33.8
October .....	41.7	35.3	34.5	32.4	35.9	34.1
November .....	43.4	36.6	35.5	31.8	37.4	34.4
December .....	49.2	44.7	40.5	36.0	43.2	40.6
<b>1995</b> .....	<b>43.6</b>	<b>38.3</b>	<b>37.7</b>	<b>33.8</b>	<b>39.2</b>	<b>36.3</b>
<b>1996</b> .....						
January .....	54.8	49.9	44.7	38.0	47.9	45.2
February .....	53.2	42.6	41.7	36.8	44.9	40.1
March .....	51.9	47.1	42.1	36.0	44.7	42.0
April .....	51.1	48.3	43.0	39.9	45.1	43.7
May .....	51.1	45.0	41.4	36.9	43.3	41.0
June .....	47.3	40.4	38.4	35.0	40.8	37.4
July .....	48.6	41.4	38.7	37.3	41.0	38.9
August .....	49.8	41.9	39.5	37.2	42.0	39.0
September .....	51.2	42.6	43.2	40.3	44.9	41.2
October .....	54.7	47.8	47.1	43.1	48.5	45.0
November .....	57.0	49.2	48.0	44.5	49.7	46.3
December .....	58.6	51.4	47.5	43.0	49.9	46.0
<b>1996</b> .....	<b>52.6</b>	<b>45.6</b>	<b>43.3</b>	<b>38.9</b>	<b>45.5</b>	<b>42.0</b>
<b>1997</b> .....						
January .....	58.7	46.2	46.3	39.2	49.2	42.9
February .....	54.6	43.7	41.8	35.4	45.0	39.4
March .....	49.3	39.6	37.6	34.1	40.3	35.8
April .....	46.4	37.6	37.5	35.2	39.7	36.1
May .....	45.3	36.6	38.7	35.4	40.3	35.8
June .....	44.5	39.4	38.7	34.8	40.1	36.7
July .....	44.2	38.5	38.2	35.4	39.6	36.6
August .....	44.6	39.4	39.5	37.6	40.7	38.3
September .....	46.1	39.8	40.2	37.6	41.5	38.5

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," January 1983 forward; Form EIA-460, "Petroleum Industry Monthly Report for Product Prices," source for backcast estimates prior to January 1983.

Figure 7. U.S. Refiner Residual Fuel Oil Prices and Volumes



Source: Energy Information Administration, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 20. U.S. Refiner Residual Fuel Oil Volumes**  
(Million Gallons per Day)

Year Month	Sulfur Less Than or Equal to 1 Percent		Sulfur Greater Than 1 Percent		Total	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>1983</b> .....	13.4	7.2	14.9	12.9	28.3	20.2
<b>1984</b> .....	15.1	6.7	17.8	14.6	32.9	21.3
<b>1985</b> .....	11.4	7.0	13.8	12.9	25.2	19.9
<b>1986</b> .....	15.2	7.9	16.4	10.7	31.6	18.6
<b>1987</b> .....	15.1	7.8	13.9	9.1	29.0	16.9
<b>1988</b> .....	14.2	8.7	15.9	10.3	30.2	18.9
<b>1989</b> .....	13.4	7.9	17.0	13.1	30.4	21.0
<b>1990</b> .....	11.1	7.4	14.9	10.5	25.9	17.9
<b>1991</b> .....	8.6	5.6	15.5	12.2	24.0	17.8
<b>1992</b> .....	7.1	5.2	15.3	10.0	22.4	15.2
<b>1993</b> .....	6.2	5.7	11.1	6.9	17.2	12.6
<b>1994</b> .....	4.2	6.6	9.3	6.2	13.5	12.8
<b>1995</b>						
January .....	3.6	10.2	9.2	7.8	12.8	18.0
February .....	4.0	9.8	10.0	7.9	13.9	17.7
March .....	2.9	8.4	9.1	6.1	12.0	14.5
April .....	2.4	6.1	8.5	4.4	11.0	10.5
May .....	2.6	5.4	7.9	5.6	10.5	11.0
June .....	2.2	7.0	8.0	4.3	10.2	11.3
July .....	2.7	7.6	7.5	4.2	10.2	11.8
August .....	3.0	7.1	8.5	5.3	11.4	12.5
September .....	2.5	7.5	9.3	5.9	11.8	13.4
October .....	2.0	7.1	8.6	5.0	10.6	12.1
November .....	2.8	6.8	8.9	5.7	11.8	12.5
December .....	4.0	9.8	8.7	8.6	12.7	18.4
<b>1995</b> .....	<b>2.9</b>	<b>7.7</b>	<b>8.7</b>	<b>5.9</b>	<b>11.6</b>	<b>13.6</b>
<b>1996</b>						
January .....	4.6	10.0	9.8	6.7	14.4	16.7
February .....	4.2	8.6	10.9	6.4	15.0	15.0
March .....	3.3	9.0	9.4	7.7	12.7	16.7
April .....	3.0	6.1	8.8	7.4	11.8	13.5
May .....	2.0	6.5	8.7	6.2	10.7	12.7
June .....	3.0	6.4	8.3	7.8	11.3	14.1
July .....	2.7	5.5	9.0	8.6	11.7	14.1
August .....	3.0	6.1	9.3	9.5	12.3	15.6
September .....	2.3	4.3	8.7	7.5	10.9	11.8
October .....	2.4	4.5	11.1	6.6	13.5	11.2
November .....	2.8	4.3	11.6	7.0	14.3	11.3
December .....	3.5	4.4	12.2	8.0	15.7	12.3
<b>1996</b> .....	<b>3.1</b>	<b>6.3</b>	<b>9.8</b>	<b>7.4</b>	<b>12.9</b>	<b>13.8</b>
<b>1997</b>						
January .....	3.6	7.3	11.4	6.5	15.0	13.8
February .....	3.8	6.5	11.3	6.9	15.1	13.5
March .....	3.2	3.0	10.7	6.5	13.8	9.5
April .....	2.8	3.7	8.5	6.8	11.3	10.5
May .....	2.7	2.7	8.2	5.3	10.9	8.0
June .....	3.0	4.3	9.4	6.6	12.4	10.9
July .....	3.2	4.1	10.4	6.9	13.7	11.1
August .....	2.9	5.1	9.4	7.2	12.3	12.3
September .....	2.9	4.7	10.4	6.6	13.2	11.3

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*. Totals may not equal the sum of the components due to rounding.  
Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

# Crude Oil Prices





**Table 21. Domestic Crude Oil First Purchase Prices**

(Dollars per Barrel)

Year Month	U.S. Average		PAD District I				PAD District II						
	U.S. Average	Less AK North Slope	Average	NY	PA	WV	Average	IL	IN	KS	KY	MI	NE
1978 .....	9.00	9.56	12.25	W	14.72	14.48	11.91	13.81	13.70	13.20	13.73	11.86	11.40
1979 .....	12.64	13.01	14.30	W	24.13	23.35	18.33	23.49	23.28	21.57	22.55	14.47	18.13
1980 .....	21.59	22.65	22.66	W	37.46	36.92	30.12	35.78	35.91	34.20	34.98	23.54	30.60
1981 .....	31.77	33.71	35.22	W	36.03	35.63	35.63	36.03	36.07	35.80	35.90	35.74	35.32
1982 .....	28.52	30.43	31.77	30.91	30.77	29.98	31.65	31.69	31.66	30.79	31.19	31.80	30.98
1983 .....	26.19	28.00	28.32	28.19	28.28	27.27	29.17	29.12	29.06	28.45	28.60	28.93	28.58
1984 .....	25.88	27.59	27.76	27.70	27.71	26.90	28.62	28.76	28.72	27.99	28.24	28.54	27.83
1985 .....	24.09	25.74	25.88	25.19	25.05	24.35	25.94	26.90	26.82	25.33	26.20	26.16	25.42
1986 .....	12.51	14.13	14.76	16.03	15.77	14.68	14.30	14.70	14.55	14.02	14.20	14.61	13.70
1987 .....	15.40	16.83	16.52	17.40	17.43	16.56	17.42	17.53	17.49	17.37	17.19	17.63	17.08
1988 .....	12.58	13.97	14.21	W	15.26	14.35	14.65	14.79	14.78	14.55	14.58	14.92	14.08
1989 .....	15.86	17.13	17.16	W	18.15	17.18	18.04	18.36	18.37	18.18	18.36	18.06	17.36
1990 .....	20.03	21.57	22.06	23.32	23.00	22.16	22.88	23.36	23.46	23.21	23.20	22.92	21.94
1991 .....	16.54	18.16	19.01	19.67	19.48	W	19.58	20.19	20.20	19.84	19.84	19.88	18.78
1992 .....	15.99	17.38	18.52	19.05	19.01	18.09	18.63	19.26	19.27	18.50	18.75	18.99	17.51
1993 .....	14.25	15.31	17.28	17.20	17.53	16.76	16.27	16.97	16.97	15.95	16.51	16.79	14.90
1994 .....	13.19	14.30	16.23	15.94	16.13	15.68	15.05	15.76	15.66	14.71	15.33	15.43	13.60
<b>1995</b>													
January .....	14.00	15.19	16.69	16.13	16.34	16.04	15.95	16.59	16.49	15.68	16.03	16.28	14.60
February .....	14.71	15.82	17.23	16.61	16.69	16.39	16.65	17.25	17.11	16.41	16.74	17.02	15.33
March .....	14.68	15.70	17.27	16.94	17.05	16.74	16.47	17.09	16.99	16.24	16.60	16.82	15.15
April .....	15.84	16.95	18.27	17.61	17.73	17.35	17.78	18.37	18.30	17.58	17.91	18.02	16.63
May .....	15.85	16.98	18.36	17.92	18.02	17.60	17.52	18.01	18.01	17.33	17.52	17.80	16.44
June .....	15.02	15.97	17.58	17.58	17.71	17.30	16.37	16.80	16.76	16.14	16.24	16.60	15.27
July .....	14.01	14.84	16.27	16.13	16.23	15.86	15.21	15.74	15.64	14.97	15.17	15.44	14.08
August .....	14.13	15.30	16.48	16.00	16.18	15.81	15.87	16.42	16.26	15.72	15.81	16.07	14.71
September .....	14.49	15.54	16.75	16.13	16.26	15.98	16.17	16.73	16.59	16.01	16.17	16.35	14.95
October .....	13.68	14.84	16.48	16.43	16.50	16.24	15.47	16.12	16.40	15.25	15.80	15.59	14.15
November .....	14.03	15.20	16.92	16.67	16.88	16.20	15.99	16.52	16.46	15.83	16.03	16.16	14.77
December .....	15.02	16.29	17.67	16.15	17.35	16.49	17.22	17.70	17.56	17.17	17.21	17.28	16.06
<b>1995</b> .....	<b>14.62</b>	<b>15.72</b>	<b>17.18</b>	<b>16.74</b>	<b>16.93</b>	<b>16.53</b>	<b>16.39</b>	<b>16.95</b>	<b>16.88</b>	<b>16.19</b>	<b>16.43</b>	<b>16.63</b>	<b>15.18</b>
<b>1996</b>													
January .....	15.43	16.44	17.83	17.72	17.63	17.02	17.05	17.49	17.26	17.03	16.78	17.19	15.91
February .....	15.54	16.43	17.70	17.73	17.91	16.91	17.04	17.64	17.38	17.01	17.06	17.04	15.79
March .....	17.63	18.68	19.77	19.39	19.86	18.23	19.41	19.99	19.74	19.48	19.34	19.56	18.04
April .....	19.58	20.62	21.80	21.57	21.73	20.38	21.51	21.98	21.78	21.64	21.39	21.63	20.25
May .....	17.94	18.56	20.17	20.24	20.44	19.52	19.46	19.92	19.70	19.52	19.25	19.44	18.94
June .....	16.94	17.77	19.50	19.58	19.83	18.85	18.70	19.27	19.00	18.90	18.65	18.86	18.27
July .....	17.63	18.50	19.97	19.81	20.05	18.69	19.55	19.98	19.76	19.77	19.43	19.62	19.06
August .....	18.29	19.17	20.44	20.49	20.57	18.99	20.32	20.71	20.47	20.42	20.12	20.39	19.72
September .....	19.93	21.03	22.48	22.53	22.63	21.17	22.19	22.64	22.39	22.38	22.01	21.98	21.99
October .....	21.09	22.20	23.20	23.71	23.85	22.18	23.22	23.71	23.46	23.48	23.03	23.15	22.78
November .....	20.20	21.11	23.12	22.38	W	20.92	21.95	22.92	23.17	22.15	22.47	21.93	21.38
December .....	21.34	22.41	23.16	23.60	23.76	22.05	23.33	23.81	23.55	23.56	23.06	23.28	22.79
<b>1996</b> .....	<b>18.46</b>	<b>19.41</b>	<b>20.82</b>	<b>20.95</b>	<b>20.99</b>	<b>19.59</b>	<b>20.33</b>	<b>20.86</b>	<b>20.67</b>	<b>20.47</b>	<b>20.24</b>	<b>20.32</b>	<b>19.57</b>
<b>1997</b>													
January .....	21.76	22.68	23.97	23.71	23.95	22.31	23.44	23.94	23.66	23.72	23.11	23.52	22.93
February .....	19.38	19.89	22.68	20.95	21.06	19.63	20.55	21.11	20.81	20.61	19.62	21.01	19.88
March .....	17.85	18.35	20.14	19.70	19.68	18.39	19.08	19.59	19.15	19.16	18.30	19.13	18.50
April .....	16.64	17.21	18.95	18.35	18.04	17.35	18.00	18.51	18.11	18.09	17.36	17.79	17.40
May .....	17.24	18.04	18.82	18.56	18.64	17.99	18.95	19.50	19.12	18.93	18.30	18.98	18.37
June .....	15.90	16.50	17.96	16.93	16.98	16.25	17.17	17.88	17.59	17.09	16.51	17.12	16.55
July .....	15.91	16.70	17.88	17.14	17.05	16.49	17.54	18.19	17.90	17.46	16.90	17.51	16.94
August .....	16.21	17.07	18.09	17.24	17.09	16.52	17.71	18.38	18.00	17.63	17.09	17.56	17.11
September .....	16.44	17.08	17.80	16.97	16.71	16.22	17.58	18.24	17.80	17.54	17.07	17.58	17.74

See footnotes at end of table.

**Table 21. Domestic Crude Oil First Purchase Prices**

(Dollars per Barrel) — Continued

Year Month	PAD District II (Continued)				PAD District III							
	ND	OH	OK	SD	Average	AL	AR	LA	MS	NM	TX	Federal Offshore Gulf
1978 .....	9.75	13.80	11.30	12.16	9.37	10.52	10.63	9.03	7.91	10.17	9.29	9.86
1979 .....	13.64	22.79	17.53	15.35	12.33	11.97	14.72	11.42	10.74	14.33	12.65	11.23
1980 .....	26.42	36.64	29.25	28.81	21.24	20.57	24.17	19.87	20.85	24.06	21.84	18.87
1981 .....	35.63	36.11	35.43	35.55	35.00	35.80	33.69	35.45	30.47	35.04	35.06	35.07
1982 .....	31.89	30.90	32.04	31.63	31.92	32.32	30.12	32.44	29.04	31.82	31.77	32.61
1983 .....	29.27	28.14	29.67	29.10	29.45	30.07	28.28	30.02	26.76	29.26	29.35	29.77
1984 .....	28.39	27.71	29.11	28.36	29.03	29.39	28.15	29.67	27.26	28.69	28.87	29.36
1985 .....	25.32	25.11	26.28	25.79	26.91	25.77	25.79	27.22	25.51	26.84	26.80	27.33
1986 .....	13.54	15.51	14.47	13.81	14.89	13.91	14.54	15.32	13.63	14.93	14.73	15.27
1987 .....	16.76	17.42	17.62	16.96	17.57	16.80	17.23	17.97	16.78	17.57	17.55	17.54
1988 .....	13.85	15.19	14.86	14.04	14.75	13.86	14.41	15.22	13.98	14.78	14.71	14.71
1989 .....	17.12	18.06	18.23	17.33	17.86	17.27	17.34	18.39	17.00	17.86	17.81	17.83
1990 .....	21.94	23.09	22.95	22.32	22.42	22.09	21.56	23.04	21.06	22.44	22.37	22.40
1991 .....	18.80	19.59	19.59	19.21	19.23	19.05	18.06	20.14	17.65	19.35	19.04	19.41
1992 .....	18.02	18.96	18.74	18.19	18.37	18.22	17.33	19.00	16.70	18.55	18.32	18.35
1993 .....	15.42	17.44	16.47	15.39	16.23	16.21	15.03	16.90	14.59	16.44	16.19	16.15
1994 .....	14.08	15.98	15.33	14.24	14.97	15.00	13.74	15.60	13.45	15.32	14.98	14.75
<b>1995</b>												
January .....	15.04	16.10	16.27	15.15	15.94	15.93	14.43	16.71	14.27	16.25	15.92	15.81
February .....	15.74	16.50	16.98	15.88	16.57	16.58	15.16	17.23	14.83	16.94	16.58	16.37
March .....	15.58	16.85	16.74	15.61	16.36	16.31	14.95	16.96	14.67	16.75	16.44	16.03
April .....	17.01	17.56	18.07	16.90	17.69	17.79	16.17	18.38	15.95	18.08	17.73	17.41
May .....	16.77	17.83	17.77	16.65	17.58	17.57	16.02	18.29	15.93	17.97	17.56	17.39
June .....	15.56	17.50	16.63	15.48	16.46	16.39	14.82	17.11	14.83	16.78	16.41	16.40
July .....	14.43	16.00	15.47	14.25	15.27	15.20	13.64	15.94	13.78	15.59	15.24	15.14
August .....	15.10	15.90	16.17	15.04	15.86	15.80	14.32	16.58	14.30	16.32	15.92	15.50
September .....	15.41	16.09	16.49	15.28	16.15	16.08	14.68	16.81	14.53	16.59	16.18	15.87
October .....	14.66	16.38	15.70	14.41	15.44	15.38	13.93	16.03	13.81	15.75	15.43	15.27
November .....	15.16	16.37	16.29	15.07	15.99	16.00	14.43	16.71	14.42	16.38	16.00	15.74
December .....	16.43	16.77	17.54	16.64	17.21	17.09	15.63	17.99	15.70	17.56	17.19	17.00
<b>1995</b>	<b>15.58</b>	<b>16.67</b>	<b>16.68</b>	<b>15.53</b>	<b>16.38</b>	<b>16.35</b>	<b>14.84</b>	<b>17.06</b>	<b>14.76</b>	<b>16.74</b>	<b>16.38</b>	<b>16.17</b>
<b>1996</b>												
January .....	16.23	17.30	17.32	16.48	17.20	17.34	15.50	18.09	15.65	17.38	17.07	17.22
February .....	16.13	17.30	17.34	16.33	17.07	17.18	15.49	17.95	15.74	17.30	16.98	16.98
March .....	18.50	18.60	19.74	18.68	19.34	18.79	17.82	19.97	17.94	19.78	19.38	19.08
April .....	20.46	20.76	21.90	20.92	21.32	20.78	19.89	21.65	20.13	21.94	21.51	20.78
May .....	18.50	19.87	19.74	18.76	19.35	19.81	18.01	19.57	17.94	20.16	19.43	18.98
June .....	17.82	19.11	18.84	18.06	18.58	18.71	17.13	18.98	17.11	19.29	18.73	18.07
July .....	18.68	18.77	19.82	18.93	19.39	19.51	17.93	19.88	18.12	20.15	19.55	18.82
August .....	19.37	19.34	20.73	19.57	20.18	20.42	18.73	20.81	18.91	20.76	20.26	19.74
September .....	21.28	21.52	22.54	21.44	22.10	22.13	20.87	22.66	20.86	22.62	22.22	21.64
October .....	22.38	22.60	23.46	22.56	23.33	23.49	21.98	23.94	21.92	23.82	23.31	23.11
November .....	20.99	21.33	22.16	21.17	22.14	22.30	20.67	22.81	20.65	22.53	21.97	22.24
December .....	22.32	22.35	23.68	22.61	23.41	22.96	21.93	24.09	21.98	23.74	23.32	23.38
<b>1996</b>	<b>19.46</b>	<b>19.96</b>	<b>20.60</b>	<b>19.56</b>	<b>20.29</b>	<b>20.24</b>	<b>18.67</b>	<b>20.88</b>	<b>18.95</b>	<b>20.79</b>	<b>20.31</b>	<b>20.03</b>
<b>1997</b>												
January .....	22.29	22.59	23.82	22.78	23.58	23.05	22.36	24.30	22.03	23.97	23.48	23.56
February .....	19.49	19.92	20.94	19.72	20.71	20.70	19.36	21.40	19.15	21.01	20.49	20.90
March .....	18.15	18.64	19.43	18.31	19.03	18.83	18.02	19.52	17.51	19.47	18.99	18.96
April .....	17.18	17.51	18.37	17.30	17.83	17.53	17.04	18.38	16.43	18.39	17.86	17.53
May .....	18.13	18.18	19.35	18.17	18.85	18.76	17.93	19.35	17.37	19.26	18.96	18.45
June .....	16.30	16.49	17.59	16.48	17.23	17.19	16.19	17.66	15.53	17.58	17.24	17.14
July .....	16.60	16.61	18.03	16.65	17.56	17.31	16.52	17.98	15.88	17.89	17.58	17.44
August .....	16.79	16.71	18.23	W	17.84	17.56	16.70	18.27	16.05	18.13	17.86	17.76
September .....	16.71	16.33	18.06	W	17.80	17.63	16.62	18.24	15.92	18.00	17.80	17.76

See footnotes at end of table.

**Table 21. Domestic Crude Oil First Purchase Prices**

(Dollars per Barrel) — Continued

Year Month	PAD District IV					PAD District V				
	Average	CO	MT	UT	WY	Average	AK North Slope	AK Other	CA	Federal Offshore California
1978 .....	9.50	10.84	9.04	9.98	9.16	6.60	5.21	5.45	8.58	6.10
1979 .....	11.98	13.28	12.03	11.41	11.73	11.17	10.57	6.22	12.78	8.06
1980 .....	21.29	22.91	20.53	19.79	21.34	19.09	16.87	10.25	23.87	16.28
1981 .....	33.38	35.69	34.69	34.14	32.30	24.79	23.23	30.15	26.80	24.56
1982 .....	30.14	31.56	31.25	30.50	29.37	21.84	19.92	27.74	24.58	23.37
1983 .....	27.81	28.92	28.80	28.12	27.19	19.66	17.69	23.59	22.61	20.54
1984 .....	27.18	28.09	28.07	27.21	26.73	19.52	17.91	24.37	22.09	20.41
1985 .....	24.78	25.64	25.29	23.98	24.67	19.11	16.98	22.46	22.14	20.08
1986 .....	13.24	13.98	13.58	13.33	12.94	8.53	6.45	13.13	11.90	9.48
1987 .....	16.77	17.71	16.57	17.22	16.45	11.89	10.83	15.48	13.92	11.82
1988 .....	13.85	14.83	13.84	14.24	13.47	9.28	8.43	12.92	10.97	9.41
1989 .....	17.37	18.86	17.03	18.63	16.73	12.71	12.00	16.17	14.06	12.64
1990 .....	21.68	23.16	21.61	22.61	21.04	16.15	15.23	21.16	17.81	16.21
1991 .....	18.21	19.95	18.17	19.99	17.33	12.30	11.57	15.36	13.72	11.33
1992 .....	17.27	19.04	17.08	19.39	16.38	12.32	11.73	15.56	13.55	10.78
1993 .....	15.30	16.59	14.70	17.48	14.59	11.23	10.84	14.11	12.11	9.20
1994 .....	14.27	15.44	13.43	16.38	13.67	10.53	9.77	13.87	12.12	9.32
1995										
January .....	15.33	16.40	14.50	17.22	14.78	11.28	10.43	14.35	13.07	9.97
February .....	16.01	17.02	15.21	17.87	15.47	11.99	11.31	14.77	13.55	10.41
March .....	15.81	16.84	14.96	17.74	15.28	12.24	11.48	15.33	13.91	10.78
April .....	17.16	17.81	16.26	19.16	16.73	13.17	12.36	16.73	14.77	11.96
May .....	17.09	17.95	16.11	18.96	16.66	13.37	12.32	17.25	15.32	12.60
June .....	15.92	16.68	14.92	17.77	15.55	12.92	11.95	16.55	14.93	11.61
July .....	14.76	15.27	13.73	16.54	14.50	12.16	11.19	15.23	14.08	10.51
August .....	15.39	16.17	14.39	16.84	15.09	11.61	10.23	15.20	14.08	10.71
September .....	15.71	16.50	14.71	17.25	15.40	12.05	10.87	15.35	14.15	10.86
October .....	15.07	15.70	14.17	16.82	14.67	11.20	10.03	14.33	13.49	10.01
November .....	15.70	16.28	14.54	17.50	15.33	11.20	10.25	13.65	13.10	9.91
December .....	16.80	17.30	15.77	18.55	16.44	11.85	10.97	14.76	13.61	10.57
1995 .....	15.90	16.67	14.93	17.71	15.50	12.08	11.12	15.28	14.00	10.81
1996										
January .....	16.73	17.26	15.73	18.37	16.38	12.93	12.13	15.67	14.55	11.23
February .....	16.66	17.28	15.68	18.29	16.28	13.40	12.76	15.43	14.87	11.63
March .....	19.01	19.58	18.03	20.65	18.62	15.18	14.23	17.40	17.11	13.58
April .....	20.86	21.72	20.13	22.79	20.29	16.93	16.08	19.69	18.71	15.13
May .....	19.12	19.60	17.92	20.69	18.85	15.73	15.82	17.58	15.96	13.17
June .....	18.38	18.84	17.20	19.81	18.15	14.49	14.24	17.19	15.23	12.40
July .....	19.23	19.87	18.15	20.49	18.98	14.85	14.62	17.96	15.53	12.67
August .....	19.82	20.49	18.77	20.99	19.59	15.34	15.29	18.20	15.71	13.06
September .....	21.69	22.35	20.63	22.70	21.48	16.59	16.30	20.07	17.31	14.58
October .....	22.82	23.40	21.87	23.74	22.63	17.79	17.45	21.19	18.50	16.25
November .....	21.39	22.28	20.51	21.94	21.19	17.42	17.27	19.99	17.93	15.47
December .....	22.66	23.70	21.88	23.06	22.42	18.33	17.82	21.67	19.36	17.09
1996 .....	19.85	20.47	18.89	21.10	19.56	15.73	15.32	18.43	16.72	13.82
1997										
January .....	22.80	23.72	21.85	23.49	22.56	19.18	18.82	22.76	20.04	17.40
February .....	19.73	20.80	18.59	20.57	19.45	17.50	17.72	19.83	17.52	14.71
March .....	18.32	19.55	17.51	18.84	17.99	16.04	16.09	18.49	16.39	13.47
April .....	17.16	18.39	16.39	17.76	16.81	14.81	14.68	17.14	15.48	12.34
May .....	18.11	19.42	17.22	18.72	17.74	14.73	14.45	16.98	15.61	12.45
June .....	16.35	17.64	15.61	17.24	15.90	13.83	13.69	15.12	14.54	11.38
July .....	16.69	18.01	15.92	17.46	16.29	13.29	12.97	15.19	14.17	11.20
August .....	16.99	18.15	16.18	17.83	16.61	13.64	12.94	15.65	14.92	12.30
September .....	16.82	18.17	15.99	17.58	16.42	14.44	14.12	15.74	15.28	12.57

W = Withheld to avoid disclosure of individual company data.

Notes: The actual domestic average price represents the average price at the lease (or wellhead) at which domestic crude oil is purchased.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration, Form ERA-182, "Domestic Crude Oil First Purchaser's Report," January 1978 through December 1982; Form EIA-182, "Domestic Crude Oil First Purchase Report," January 1983 to present.

**Table 22. Domestic Crude Oil First Purchase Prices for Selected Crude Streams**  
(Dollars per Barrel)

Year Month	Alaska North Slope	California Midway- Sunset	California Kern River	California Wilmington	Louisiana South Mix	North Dakota Sweet	West Texas Intermediate	West Texas Sour	Wyoming Sour
<b>1994</b> .....	<b>9.77</b>	<b>11.79</b>	<b>11.65</b>	<b>12.47</b>	<b>15.71</b>	<b>14.54</b>	<b>15.65</b>	<b>14.16</b>	<b>11.87</b>
<b>1995</b>									
January .....	10.43	12.44	12.64	13.54	16.80	15.57	16.59	15.06	13.31
February .....	11.31	12.85	13.14	14.08	17.36	16.21	17.28	15.63	13.98
March .....	11.48	13.19	13.44	14.34	17.03	16.06	17.09	15.56	13.82
April .....	12.36	14.07	14.41	15.60	18.43	17.46	18.40	16.83	15.13
May .....	12.32	14.64	14.86	15.97	18.41	17.23	18.23	16.74	15.07
June .....	11.95	14.45	14.47	15.51	17.21	16.01	17.04	15.60	14.04
July .....	11.19	13.59	13.82	14.45	16.04	14.88	15.83	14.41	12.99
August .....	10.23	13.59	13.82	14.54	16.66	15.50	16.57	15.03	13.72
September .....	10.87	13.70	13.91	14.65	16.88	15.78	16.82	15.33	14.11
October .....	10.03	12.82	13.00	14.15	16.12	15.07	16.03	14.56	13.35
November .....	10.25	12.35	12.55	13.55	16.80	15.62	16.64	15.14	13.95
December .....	10.97	12.80	13.12	13.98	18.11	16.86	17.85	16.33	15.11
<b>1995</b> .....	<b>11.12</b>	<b>13.37</b>	<b>13.59</b>	<b>14.70</b>	<b>17.14</b>	<b>16.02</b>	<b>17.03</b>	<b>15.52</b>	<b>14.06</b>
<b>1996</b>									
January .....	12.13	13.92	14.11	14.90	18.26	16.67	17.68	16.15	15.13
February .....	12.76	14.33	14.48	15.05	18.06	16.60	17.62	16.09	14.94
March .....	14.23	16.57	16.75	17.27	20.05	18.95	19.99	18.57	17.30
April .....	16.08	17.97	18.12	18.80	21.69	20.85	22.21	20.63	19.05
May .....	15.82	14.88	15.19	15.83	19.58	18.95	20.18	18.61	17.43
June .....	14.24	14.11	14.41	15.18	18.92	18.27	19.41	17.90	16.74
July .....	14.62	14.34	14.69	15.70	19.80	19.11	20.23	18.72	17.49
August .....	15.29	14.38	14.73	16.85	20.76	19.78	20.94	19.44	18.20
September .....	16.30	15.85	16.23	17.22	22.66	21.67	22.85	21.46	20.08
October .....	17.45	17.15	17.50	19.19	23.85	22.81	23.97	22.48	21.19
November .....	17.27	16.72	17.03	17.95	22.83	21.36	22.65	21.19	19.63
December .....	17.82	18.19	18.49	19.41	24.11	22.71	24.07	22.35	20.83
<b>1996</b> .....	<b>15.32</b>	<b>15.70</b>	<b>15.97</b>	<b>17.13</b>	<b>20.89</b>	<b>19.82</b>	<b>20.96</b>	<b>19.49</b>	<b>18.16</b>
<b>1997</b>									
January .....	18.82	18.86	19.05	20.06	24.17	22.90	24.09	22.62	20.87
February .....	17.72	15.98	16.29	17.30	21.31	19.92	21.15	19.54	17.52
March .....	16.09	15.25	15.40	16.39	19.56	18.59	19.73	17.84	15.92
April .....	14.68	14.23	14.61	15.61	18.31	17.56	18.66	16.74	14.84
May .....	14.45	14.86	14.99	16.23	19.39	18.44	19.71	18.02	15.58
June .....	13.69	13.64	13.72	14.94	17.60	16.55	17.85	16.30	13.83
July .....	12.97	13.36	13.56	13.94	17.96	16.87	18.19	16.77	14.34
August .....	12.94	14.20	14.59	W	18.23	17.08	18.42	17.06	14.61
September .....	14.12	14.58	14.71	W	18.22	16.94	18.30	17.07	14.43

W = Withheld to avoid disclosure of individual company data.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration, Form EIA-182, "Domestic Crude Oil First Purchase Report."

**Table 23. Domestic Crude Oil First Purchase Prices by API Gravity**  
(Dollars per Barrel)

Year Month	20.0 or Less	20.1 to 25.0	25.1 to 30.0	30.1 to 35.0	35.1 to 40.0	40.1 or Greater
<b>1994</b> .....	<b>11.83</b>	<b>12.83</b>	<b>9.79</b>	<b>14.72</b>	<b>14.79</b>	<b>15.62</b>
<b>1995</b>						
January .....	12.39	14.04	10.45	15.74	15.61	16.55
February .....	12.84	14.62	11.33	16.30	16.36	17.23
March .....	13.09	14.46	11.49	16.10	16.27	17.02
April .....	14.19	15.76	12.38	17.42	17.47	18.36
May .....	14.71	15.75	12.34	17.46	17.46	18.18
June .....	14.07	14.67	11.97	16.40	16.44	16.99
July .....	13.17	13.66	11.20	15.14	15.29	15.79
August .....	13.27	14.28	10.26	15.63	15.75	16.52
September .....	13.43	14.62	10.90	15.88	16.05	16.77
October .....	12.62	13.87	10.05	15.15	15.31	15.97
November .....	12.33	14.38	10.28	15.67	15.86	16.59
December .....	12.94	15.47	11.00	16.89	16.96	17.78
<b>1995</b> .....	<b>13.26</b>	<b>14.64</b>	<b>11.14</b>	<b>16.15</b>	<b>16.24</b>	<b>16.98</b>
<b>1996</b>						
January .....	13.80	15.60	12.16	17.04	16.97	17.65
February .....	14.16	15.49	12.78	16.84	16.94	17.60
March .....	16.32	17.85	14.25	19.10	19.24	19.92
April .....	17.84	19.70	16.11	20.89	21.23	22.08
May .....	15.22	17.88	15.84	18.93	19.47	20.16
June .....	14.46	17.22	14.26	18.16	18.72	19.37
July .....	14.77	17.92	14.65	18.97	19.54	20.20
August .....	14.97	18.54	15.32	19.82	20.12	20.92
September .....	16.62	20.40	16.34	21.77	22.04	22.81
October .....	17.90	21.45	17.50	22.96	23.11	23.96
November .....	17.21	20.14	17.29	21.91	21.86	22.64
December .....	18.66	21.36	17.86	23.08	23.13	23.99
<b>1996</b> .....	<b>16.01</b>	<b>18.61</b>	<b>15.35</b>	<b>19.97</b>	<b>20.23</b>	<b>20.91</b>
<b>1997</b>						
January .....	19.26	21.50	18.85	23.25	23.42	24.07
February .....	16.63	18.35	17.74	20.36	20.62	21.19
March .....	15.75	16.90	16.11	18.69	19.23	19.66
April .....	14.50	15.70	14.70	17.43	18.10	18.63
May .....	15.41	16.33	14.48	18.35	18.81	19.65
June .....	14.16	14.71	13.74	16.85	17.13	17.81
July .....	13.85	15.15	13.00	17.23	17.39	18.14
August .....	14.86	15.50	12.98	17.54	17.68	18.37
September .....	15.08	15.36	14.14	17.54	17.58	18.22

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration, Form EIA-182, "Domestic Crude Oil First Purchase Report."

**Table 24. F.O.B.<sup>a</sup> Costs of Imported Crude Oil by Selected Country**  
(Dollars per Barrel)

Year Month	Selected Countries							Persian Gulf <sup>b</sup>	Total OPEC <sup>c</sup>	Non OPEC
	Angola	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela			
1978 .....	13.32	—	13.24	14.05	12.70	13.82	12.38	12.77	13.31	13.23
1979 .....	19.85	—	20.27	21.69	17.28	21.70	16.90	18.77	19.88	20.92
1980 .....	33.45	W	31.06	35.93	28.17	34.36	24.81	28.92	32.21	32.85
1981 .....	35.55	—	33.01	38.31	32.60	36.06	28.95	33.00	35.17	35.12
1982 .....	31.86	—	28.08	35.13	33.73	33.42	23.74	33.55	33.48	30.58
1983 .....	28.14	—	25.20	29.81	27.53	29.91	21.48	27.70	28.46	27.20
1984 .....	27.46	—	26.39	29.51	27.67	28.87	24.23	27.48	27.79	27.45
1985 .....	26.30	—	25.33	28.04	22.04	27.64	23.64	23.31	25.67	25.96
1986 .....	13.30	12.34	11.84	14.35	11.36	13.84	10.92	11.35	12.21	12.87
1987 .....	17.27	17.84	16.36	18.47	15.12	18.28	15.08	15.97	16.43	16.99
1988 .....	13.70	13.61	12.18	15.16	12.16	14.80	12.96	12.38	13.43	13.05
1989 .....	17.66	17.89	15.96	18.31	16.29	17.89	16.09	16.61	17.06	16.72
1990 .....	20.23	20.75	19.26	22.46	20.36	23.43	19.55	18.54	20.40	20.32
1991 .....	18.47	18.49	15.37	20.29	14.62	20.81	14.91	15.22	16.99	16.77
1992 .....	18.41	18.02	15.26	19.98	15.85	19.61	14.39	16.35	16.87	16.66
1993 .....	16.23	15.87	13.74	17.79	13.77	16.64	12.46	14.21	14.78	14.65
1994 .....	15.40	14.99	13.68	16.32	14.12	15.66	12.21	13.97	14.00	14.34
<b>1995</b> .....	<b>15.63</b>	<b>15.87</b>	<b>14.98</b>	<b>17.13</b>	<b>W</b>	<b>W</b>	<b>12.61</b>	<b>W</b>	<b>14.79</b>	<b>15.37</b>
January .....	15.63	15.87	14.98	17.13	W	W	12.61	W	14.79	15.37
February .....	16.70	W	15.79	17.43	W	16.84	13.02	15.96	15.14	16.17
March .....	16.68	16.77	15.74	17.19	W	W	14.23	W	15.47	16.28
April .....	17.38	18.12	17.16	18.96	W	W	15.97	W	17.20	17.37
May .....	18.25	18.27	17.20	18.66	W	18.42	15.76	W	16.98	17.69
June .....	16.92	16.33	16.07	17.66	W	W	13.80	W	15.48	16.37
July .....	15.63	15.85	14.77	15.97	W	W	13.33	W	14.45	15.15
August .....	15.37	16.44	14.54	16.48	W	16.23	13.73	W	14.89	15.20
September .....	16.44	16.79	15.24	16.91	W	16.47	13.30	W	14.79	15.67
October .....	15.68	16.11	15.02	16.54	W	16.41	12.40	W	14.26	15.15
November .....	16.39	16.65	15.32	17.28	W	W	13.38	W	15.05	15.50
December .....	17.24	17.38	16.41	18.37	W	W	14.70	W	15.74	16.37
<b>1995</b> .....	<b>16.58</b>	<b>16.73</b>	<b>15.64</b>	<b>17.40</b>	<b>W</b>	<b>16.94</b>	<b>13.86</b>	<b>W</b>	<b>15.36</b>	<b>16.02</b>
<b>1996</b> .....	<b>16.95</b>	<b>17.73</b>	<b>16.52</b>	<b>18.63</b>	<b>W</b>	<b>W</b>	<b>14.12</b>	<b>W</b>	<b>15.86</b>	<b>16.42</b>
January .....	16.95	17.73	16.52	18.63	W	W	14.12	W	15.86	16.42
February .....	17.91	18.09	16.59	18.53	W	W	15.22	W	16.89	16.83
March .....	19.78	20.02	18.39	20.44	18.29	19.42	17.78	18.62	18.77	18.77
April .....	20.96	22.65	19.63	21.49	W	W	17.99	W	18.75	20.20
May .....	19.72	20.09	17.93	20.13	W	19.02	16.35	W	17.72	18.83
June .....	18.60	19.49	17.05	19.25	17.96	W	16.08	17.70	17.21	17.94
July .....	19.72	19.72	17.85	19.90	18.48	W	16.72	18.31	17.78	18.62
August .....	20.33	20.79	18.89	21.13	20.16	18.82	17.35	19.98	18.99	19.55
September .....	22.26	22.79	20.96	22.80	20.60	W	19.66	20.72	20.57	21.44
October .....	23.05	23.57	22.40	24.71	W	W	20.29	W	21.85	22.59
November .....	22.38	23.25	20.96	24.43	21.90	22.35	19.62	22.11	21.04	21.48
December .....	23.22	24.56	21.83	24.39	19.24	W	20.41	19.35	21.01	22.04
<b>1996</b> .....	<b>20.71</b>	<b>21.33</b>	<b>19.14</b>	<b>21.27</b>	<b>19.28</b>	<b>19.43</b>	<b>17.73</b>	<b>19.22</b>	<b>18.94</b>	<b>19.65</b>
<b>1997</b> .....	<b>23.20</b>	<b>24.14</b>	<b>21.09</b>	<b>24.52</b>	<b>17.37</b>	<b>W</b>	<b>19.35</b>	<b>17.37</b>	<b>20.37</b>	<b>21.93</b>
January .....	23.20	24.14	21.09	24.52	17.37	W	19.35	17.37	20.37	21.93
February .....	21.35	21.12	18.57	21.53	W	W	16.68	W	17.96	19.71
March .....	18.66	19.41	17.00	19.02	—	—	15.50	W	16.49	17.68
April .....	17.05	17.87	15.94	17.97	15.82	W	14.81	15.95	15.92	16.44
May .....	18.25	17.92	16.84	18.99	15.60	19.03	15.27	15.67	16.27	17.33
June .....	17.84	16.87	15.70	18.22	15.26	18.09	14.66	15.11	15.61	16.36
July .....	17.72	17.72	15.99	19.12	15.24	17.40	14.99	15.33	16.04	16.65
August .....	17.96	18.45	16.30	19.00	W	18.17	15.20	W	16.13	16.99
September .....	17.84	18.58	16.00	19.49	16.69	W	15.17	16.76	16.44	16.67

Dash (—) = No data reported.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Free on Board. See Glossary.

<sup>b</sup> Includes Bahrain, Iran, Iraq, Kuwait, Neutral Zone, Qatar, Saudi Arabia, and United Arab Emirates.

<sup>c</sup> Includes Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates and Venezuela. In addition, it included Ecuador in 1978 through 1992 and Gabon in 1978 through 1995.

Notes: Values through 1980 reflect the month of reporting; values since then reflect the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. Prices for crude oil can be determined at a time other than the acquisition date. See the Explanatory Notes section for additional detail.

Notes: Values for the current 2 months are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration, Form FEA-F701-M-0, "Transfer Pricing Report," January 1978 through December 1978; Form ERA-51, "Transfer Pricing Report," January 1979 through September 1982; Form EP-51, "Monthly Foreign Crude Oil Transaction Report," October 1982 through June 1984; Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report," July 1984 to present.

**Table 25. Landed Costs of Imported Crude Oil by Selected Country**  
(Dollars per Barrel)

Year Month	Selected Countries								Persian Gulf <sup>a</sup>	Total OPEC <sup>b</sup>	Non OPEC
	Angola	Canada	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela			
1978 .....	14.07	14.41	—	13.56	14.88	13.94	14.53	12.84	14.01	14.34	14.38
1979 .....	21.06	20.22	—	20.77	22.97	18.95	22.97	17.65	20.42	21.29	22.10
1980 .....	34.76	30.11	W	31.77	37.15	29.80	35.68	25.92	30.59	33.56	33.99
1981 .....	36.84	32.32	—	33.70	39.66	34.20	37.29	29.91	34.61	36.60	36.14
1982 .....	33.08	27.15	—	28.63	36.16	34.99	34.25	24.93	34.94	34.81	31.47
1983 .....	29.31	25.63	—	25.78	30.85	29.27	30.87	22.94	29.37	29.84	28.08
1984 .....	28.49	26.56	—	26.85	30.36	29.20	29.45	25.19	29.07	29.06	28.14
1985 .....	27.39	25.71	—	25.63	28.96	24.72	28.36	24.43	25.50	26.86	26.53
1986 .....	14.09	13.43	12.85	12.17	15.29	12.84	14.63	11.52	12.92	13.46	13.52
1987 .....	18.20	17.04	18.43	16.69	19.32	16.81	18.78	15.76	17.47	17.64	17.66
1988 .....	14.48	13.50	14.47	12.58	15.88	13.37	15.82	13.66	13.51	14.18	13.96
1989 .....	18.36	16.81	18.10	16.35	19.19	17.34	18.74	16.78	17.37	17.78	17.54
1990 .....	21.51	20.48	22.34	19.64	23.33	21.82	22.65	20.31	20.55	21.23	20.98
1991 .....	19.90	17.16	19.55	15.89	21.39	17.22	21.37	15.92	17.34	18.08	17.93
1992 .....	19.36	17.04	18.46	15.60	20.78	17.48	20.63	15.13	17.58	17.81	17.67
1993 .....	17.40	15.27	16.54	14.11	18.73	15.40	17.92	13.39	15.26	15.68	15.78
1994 .....	16.36	14.83	15.80	14.09	17.21	15.11	16.64	13.12	15.00	15.08	15.29
<b>1995</b>											
January .....	16.87	16.09	16.67	15.52	17.64	16.66	17.35	13.66	16.67	16.15	16.33
February .....	17.67	16.74	17.61	16.23	18.24	17.15	17.70	14.01	17.08	16.53	16.99
March .....	18.03	16.88	17.49	16.34	18.13	17.41	18.00	15.29	17.34	16.86	17.24
April .....	18.64	18.27	18.91	17.56	19.82	18.45	18.53	16.95	18.42	18.33	18.19
May .....	19.09	18.44	18.88	17.69	19.45	17.71	19.16	16.68	17.69	17.93	18.50
June .....	18.33	17.28	17.08	16.58	18.74	16.39	18.71	14.85	16.41	16.64	17.52
July .....	17.01	16.33	16.52	15.28	17.29	15.85	17.44	14.21	15.82	15.73	16.18
August .....	16.47	16.35	17.16	15.12	17.39	16.15	17.28	14.68	16.11	16.02	16.17
September .....	17.27	16.37	17.48	15.74	17.86	16.35	17.44	14.28	16.31	16.22	16.57
October .....	16.80	15.37	17.13	15.61	17.49	16.03	17.32	13.33	15.95	15.60	16.16
November .....	17.22	15.37	17.30	15.90	17.98	17.00	17.28	14.20	16.87	16.30	16.25
December .....	18.09	16.07	17.97	17.08	19.10	16.73	18.74	15.48	16.62	16.91	17.19
1995 .....	17.66	16.65	17.45	16.19	18.25	16.84	17.91	14.81	16.78	16.61	16.95
<b>1996</b>											
January .....	18.16	16.07	18.55	16.95	19.65	17.98	18.49	15.12	17.86	17.41	17.23
February .....	18.82	16.33	18.82	17.07	19.47	18.76	19.39	16.02	18.81	18.06	17.58
March .....	20.85	18.55	20.57	18.95	21.25	19.59	19.25	18.63	19.87	19.81	19.42
April .....	21.41	21.10	23.37	20.23	22.32	20.55	20.76	19.14	20.48	20.26	21.11
May .....	20.88	20.16	21.04	18.67	21.17	19.55	21.22	17.42	19.44	19.17	19.97
June .....	19.62	19.20	20.08	17.75	20.11	18.92	20.40	17.14	18.79	18.64	19.00
July .....	20.70	19.72	20.62	18.55	20.85	19.77	19.79	17.55	19.58	19.15	19.54
August .....	21.58	20.44	21.47	19.51	21.95	20.70	20.56	18.22	20.52	20.16	20.44
September .....	23.40	21.85	23.47	21.59	23.40	21.81	21.69	20.37	21.80	21.66	22.23
October .....	23.94	22.53	24.42	22.84	25.57	22.91	23.12	20.89	22.77	22.78	23.30
November .....	23.47	21.33	23.81	21.22	25.19	22.66	24.10	20.40	22.64	22.15	22.31
December .....	24.48	21.32	25.20	22.06	25.42	21.93	24.23	21.23	22.04	22.22	22.73
1996 .....	21.86	19.94	22.02	19.64	21.95	20.49	20.88	18.59	20.45	20.14	20.47
<b>1997</b>											
January .....	24.45	21.79	24.98	21.60	25.52	21.04	24.18	20.43	21.01	21.64	22.89
February .....	22.54	19.75	21.72	19.11	23.26	18.37	24.33	17.58	18.37	19.20	20.59
March .....	20.34	18.43	20.39	17.43	20.58	18.04	23.59	16.57	18.13	18.05	18.83
April .....	18.70	17.22	18.76	16.60	19.27	17.56	18.80	16.05	17.39	17.46	17.57
May .....	19.59	17.46	18.78	17.59	19.87	17.08	20.04	16.38	17.07	17.57	18.16
June .....	19.33	16.31	17.74	16.24	19.57	16.93	19.54	15.70	16.85	17.01	17.23
July .....	18.59	16.61	18.56	16.50	20.02	17.07	18.59	15.96	16.86	17.14	17.40
August .....	19.12	17.16	19.06	16.85	20.01	17.54	19.33	16.10	17.35	17.49	17.78
September .....	19.20	17.09	19.39	16.64	20.34	18.13	19.01	16.05	17.67	17.67	17.65

Dash (—) = No data reported.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes Bahrain, Iran, Iraq, Kuwait, Neutral Zone, Qatar, Saudi Arabia, and United Arab Emirates.

<sup>b</sup> Includes Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates and Venezuela. In addition, it included Ecuador in 1978 through 1992 and Gabon in 1978 through 1995.

Notes: Values through 1980 reflect the month of reporting; values since then reflect the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. Prices for crude oil can be determined at a time other than the acquisition date. See the Explanatory Notes section for additional detail.

Notes: Values for the current 2 months are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration, Form FEA-F701-M-0, "Transfer Pricing Report," January 1978 through December 1978; Form ERA-51, "Transfer Pricing Report," January 1979 through September 1982; Form EP-51, "Monthly Foreign Crude Oil Transaction Report," October 1982 through June 1984; Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report," July 1984 to present.



**Table 26. F.O.B.<sup>a</sup> Costs of Imported Crude Oil by API Gravity**  
(Dollars per Barrel)

Year Month	20.0 or Less	20.1 to 25.0	25.1 to 30.0	30.1 to 35.0	35.1 to 40.0	40.1 to 45.0	45.1 or Greater
1978 .....	11.98	11.74	12.51	13.06	13.62	14.00	14.01
1979 .....	14.43	18.54	19.91	19.54	21.24	21.65	19.77
1980 .....	23.09	28.76	30.72	30.31	34.33	35.39	36.13
1981 .....	26.70	31.20	33.61	34.38	36.85	38.42	38.59
1982 .....	23.08	25.82	31.48	33.56	34.29	34.82	34.48
1983 .....	21.77	24.27	27.38	29.04	29.74	30.10	30.12
1984 .....	24.10	25.31	27.22	28.55	29.18	29.40	28.02
1985 .....	23.45	24.27	24.86	26.46	27.43	27.79	26.90
1986 .....	10.51	10.96	12.25	12.83	13.83	14.19	13.76
1987 .....	15.21	15.37	15.76	17.24	17.99	18.03	17.37
1988 .....	11.92	11.65	12.48	13.82	14.38	14.89	15.25
1989 .....	14.00	14.89	16.95	17.50	18.09	18.23	18.05
1990 .....	15.98	18.00	20.54	20.77	22.19	22.78	22.28
1991 .....	11.91	13.72	16.33	17.67	20.15	19.69	20.85
1992 .....	11.83	13.96	16.74	18.02	19.50	19.58	20.05
1993 .....	11.33	12.22	15.14	15.44	17.04	17.53	17.61
1994 .....	11.43	12.19	14.45	14.93	15.91	15.70	16.11
<b>1995</b>							
January .....	12.46	13.20	15.27	15.78	16.81	15.82	17.02
February .....	12.97	13.69	16.13	16.28	17.21	17.12	W
March .....	13.46	14.38	16.14	16.87	17.32	16.88	17.86
April .....	15.01	15.89	17.65	17.87	18.72	17.87	18.00
May .....	15.17	15.91	17.62	17.44	18.68	18.51	18.85
June .....	13.75	14.53	16.30	16.35	17.48	18.04	17.72
July .....	12.98	13.20	15.28	15.46	16.18	W	16.48
August .....	12.71	13.46	15.83	15.48	16.47	W	16.46
September .....	12.85	13.27	15.90	15.55	16.87	W	17.04
October .....	11.69	12.42	15.05	15.31	16.52	W	16.66
November .....	12.76	12.85	15.29	16.09	16.99	16.76	17.83
December .....	13.86	14.23	16.63	16.08	18.14	17.79	W
<b>1995</b> .....	<b>13.35</b>	<b>13.93</b>	<b>16.14</b>	<b>16.19</b>	<b>17.25</b>	<b>17.30</b>	<b>17.32</b>
<b>1996</b>							
January .....	13.37	13.78	16.32	17.32	18.36	18.65	W
February .....	14.23	14.73	17.14	18.38	18.10	19.58	W
March .....	15.41	16.74	19.23	19.51	20.27	W	21.05
April .....	15.57	17.62	20.70	19.82	21.59	W	W
May .....	14.81	16.32	19.02	18.88	19.91	20.09	20.04
June .....	14.93	15.97	18.12	18.22	19.21	18.91	W
July .....	15.44	16.41	18.79	18.86	20.09	20.29	W
August .....	16.18	17.08	19.81	20.11	21.08	20.29	20.89
September .....	17.99	19.26	21.64	21.73	22.94	W	21.56
October .....	18.18	20.18	22.92	22.52	24.46	W	23.70
November .....	17.80	18.94	21.76	22.02	23.59	23.07	W
December .....	18.07	19.22	22.19	21.93	24.41	24.38	24.99
<b>1996</b> .....	<b>16.01</b>	<b>17.26</b>	<b>19.90</b>	<b>20.04</b>	<b>21.20</b>	<b>21.00</b>	<b>21.59</b>
<b>1997</b>							
January .....	17.17	18.43	22.68	21.89	24.25	24.48	24.44
February .....	13.75	16.25	20.20	19.27	21.61	21.61	W
March .....	13.39	14.96	17.91	17.53	19.58	21.01	19.69
April .....	13.11	14.50	16.31	16.90	18.08	W	20.51
May .....	13.17	15.29	17.01	17.32	19.10	18.71	W
June .....	13.10	14.24	15.91	16.44	18.03	18.86	18.12
July .....	13.50	14.77	16.86	17.09	18.45	—	18.71
August .....	13.27	15.02	16.59	17.34	18.82	19.00	18.93
September .....	13.56	14.79	17.45	17.76	18.52	W	W

Dash (—) = No data reported.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Free on Board. See Glossary.

Notes: Values through 1980 reflect the month of reporting; values since then reflect the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. Prices for crude oil can be determined at a time other than the acquisition date. See the Explanatory Notes section for additional detail.

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**Table 27. Landed Costs of Imported Crude Oil by API Gravity**

(Dollars per Barrel)

Year Month	20.0 or Less	20.1 to 25.0	25.1 to 30.0	30.1 to 35.0	35.1 to 40.0	40.1 to 45.0	45.1 or Greater
1978 .....	12.75	13.11	13.76	14.10	14.69	14.87	15.16
1979 .....	15.57	20.05	20.88	21.01	22.61	23.06	21.23
1980 .....	24.54	29.65	31.83	31.73	35.81	36.85	37.57
1981 .....	27.94	32.00	34.86	35.71	38.36	39.78	39.97
1982 .....	24.17	26.46	32.62	34.76	35.43	35.78	35.81
1983 .....	23.17	24.95	28.62	30.25	30.96	31.28	31.27
1984 .....	25.08	25.97	28.38	29.58	30.16	30.16	29.05
1985 .....	24.33	24.65	26.17	27.10	28.29	28.39	27.73
1986 .....	11.30	11.49	13.28	13.59	14.99	14.80	15.37
1987 .....	16.14	15.87	17.21	18.16	18.72	18.89	18.57
1988 .....	12.75	12.11	13.54	14.35	15.21	15.74	16.24
1989 .....	14.90	15.42	17.59	17.87	18.74	19.05	19.13
1990 .....	16.82	18.54	21.59	21.18	22.47	23.47	23.41
1991 .....	13.06	14.41	17.17	18.65	20.86	20.88	22.15
1992 .....	12.89	14.58	17.39	18.50	20.11	20.55	20.95
1993 .....	12.44	12.96	15.72	16.06	17.88	18.38	18.22
1994 .....	12.42	12.93	15.10	15.61	16.65	16.64	16.91
<b>1995</b>							
January .....	13.91	14.06	16.26	16.91	17.27	16.74	17.41
February .....	14.21	14.62	16.88	17.27	17.84	17.99	17.20
March .....	14.72	15.31	16.96	17.67	17.94	18.16	18.53
April .....	15.94	16.74	18.43	18.72	19.05	18.83	18.93
May .....	16.20	16.75	18.26	18.12	19.28	19.21	19.08
June .....	14.78	15.44	17.03	17.20	18.59	18.51	18.82
July .....	13.96	14.10	15.97	16.41	17.16	17.30	17.81
August .....	13.70	14.30	16.38	16.36	17.32	16.95	16.55
September .....	14.04	14.20	16.49	16.65	17.55	18.60	18.02
October .....	12.88	13.40	15.78	16.24	17.30	17.78	17.46
November .....	13.56	13.74	16.13	17.01	17.54	17.53	18.21
December .....	14.80	15.03	17.13	17.15	18.69	18.48	18.18
<b>1995</b> .....	<b>14.43</b>	<b>14.81</b>	<b>16.84</b>	<b>17.13</b>	<b>17.96</b>	<b>18.17</b>	<b>17.90</b>
<b>1996</b>							
January .....	14.41	14.81	17.62	18.12	18.80	19.22	18.47
February .....	15.29	15.52	17.66	18.86	18.80	20.03	19.74
March .....	16.57	17.52	19.84	20.30	20.54	21.63	21.48
April .....	17.04	18.65	21.71	20.94	22.12	21.86	22.15
May .....	15.97	17.39	19.92	19.90	21.01	21.48	21.57
June .....	16.10	16.90	19.17	19.20	20.09	20.30	20.63
July .....	16.63	17.28	19.70	19.75	20.66	21.02	20.96
August .....	17.33	18.00	20.52	20.86	21.72	21.54	21.81
September .....	19.12	19.91	22.55	22.38	23.33	22.93	22.54
October .....	19.23	20.97	23.32	23.34	24.80	24.73	24.87
November .....	18.99	19.57	22.43	22.95	24.10	24.61	24.37
December .....	19.17	19.92	22.96	22.71	24.77	25.19	25.53
<b>1996</b> .....	<b>17.18</b>	<b>18.11</b>	<b>20.53</b>	<b>20.87</b>	<b>21.74</b>	<b>21.71</b>	<b>22.28</b>
<b>1997</b>							
January .....	18.57	19.39	23.77	22.23	24.88	25.24	25.59
February .....	14.79	17.00	21.22	19.69	22.81	22.74	24.44
March .....	14.56	16.06	18.91	18.55	20.83	22.05	21.22
April .....	14.57	15.28	17.72	17.89	19.25	21.09	21.01
May .....	14.64	16.08	17.91	18.06	19.96	20.17	20.63
June .....	14.37	15.00	17.20	17.32	19.16	20.27	19.03
July .....	14.65	15.42	17.66	17.66	19.05	19.96	19.40
August .....	14.48	15.72	17.73	18.28	19.56	20.23	20.13
September .....	14.63	15.49	18.02	18.59	19.54	19.55	19.97

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**Table 28. Percentages of Total Imported Crude Oil by API Gravity**  
(Percent by Interval)

Year Month	20.0 or Less	20.1 to 25.0	25.1 to 30.0	30.1 to 35.0	35.1 to 40.0	40.1 to 45.0	45.1 or Greater
1978 .....	1.26	3.57	7.93	38.79	31.66	13.48	3.31
1979 .....	1.65	3.96	8.45	38.98	30.64	13.36	2.96
1980 .....	1.70	6.18	9.25	38.43	27.02	13.56	3.85
1981 .....	2.19	8.88	9.46	37.37	26.60	12.53	2.98
1982 .....	3.39	14.90	11.72	35.58	23.76	8.44	2.20
1983 .....	3.91	20.40	15.14	24.95	23.63	7.74	4.23
1984 .....	6.48	20.52	11.59	21.05	25.75	8.12	6.48
1985 .....	7.62	20.46	11.19	27.14	24.93	4.02	4.65
1986 .....	5.54	19.36	14.12	27.49	25.74	3.65	4.11
1987 .....	4.04	19.68	16.88	26.91	24.79	3.87	3.85
1988 .....	3.52	18.27	15.99	30.72	24.45	4.04	3.02
1989 .....	2.55	14.39	16.80	36.27	23.79	3.55	2.64
1990 .....	3.64	14.96	18.13	34.44	23.21	2.94	2.67
1991 .....	3.76	16.02	20.79	34.84	20.94	2.11	1.55
1992 .....	4.05	17.64	22.41	31.38	20.49	3.00	1.04
1993 .....	4.52	18.79	19.24	32.49	20.99	2.59	1.39
1994 .....	3.80	18.98	18.46	30.77	23.37	2.75	1.87
<b>1995</b>							
January .....	3.71	18.35	21.23	27.59	23.06	2.45	3.61
February .....	4.64	18.12	15.63	33.23	23.96	2.74	1.70
March .....	5.79	17.57	17.28	33.09	22.12	2.71	1.45
April .....	3.65	19.15	19.15	30.82	22.43	3.83	0.97
May .....	4.82	16.24	17.01	30.42	23.98	6.38	1.15
June .....	5.66	18.65	17.13	32.31	22.01	2.51	1.73
July .....	5.33	19.30	16.25	34.63	19.75	2.97	1.78
August .....	4.21	19.46	17.82	29.45	24.03	3.24	1.80
September .....	4.05	17.79	16.84	30.79	26.36	1.61	2.56
October .....	4.79	16.91	14.73	32.51	28.25	0.98	1.83
November .....	3.30	19.43	15.27	31.36	26.55	2.48	1.62
December .....	4.20	19.63	16.36	32.18	23.25	3.40	0.98
<b>1995</b> .....	<b>4.52</b>	<b>18.38</b>	<b>17.04</b>	<b>31.51</b>	<b>23.81</b>	<b>2.98</b>	<b>1.76</b>
<b>1996</b>							
January .....	4.15	22.60	17.85	28.54	23.19	2.19	1.48
February .....	4.52	22.26	14.69	28.79	24.96	3.51	1.27
March .....	3.79	19.54	19.77	31.45	22.75	1.17	1.54
April .....	4.56	20.86	13.84	31.67	26.91	0.96	1.20
May .....	4.51	18.61	15.86	32.04	24.32	3.00	1.66
June .....	4.29	20.45	15.33	34.01	22.65	2.29	0.98
July .....	6.17	18.84	13.25	33.93	24.75	2.16	0.90
August .....	5.23	19.66	12.44	35.69	22.73	2.57	1.69
September .....	3.99	21.90	13.26	36.65	21.75	0.65	1.80
October .....	3.92	22.24	15.65	30.63	23.84	1.09	2.62
November .....	5.03	22.49	13.65	31.88	23.91	2.24	0.80
December .....	4.63	21.77	11.45	38.24	20.65	1.68	1.59
<b>1996</b> .....	<b>4.58</b>	<b>20.88</b>	<b>14.69</b>	<b>32.92</b>	<b>23.51</b>	<b>1.95</b>	<b>1.47</b>
<b>1997</b>							
January .....	4.90	21.83	13.07	35.17	21.70	2.37	0.96
February .....	4.66	22.18	15.45	29.96	24.56	2.33	0.86
March .....	5.24	21.60	12.11	36.02	21.09	2.14	1.80
April .....	6.80	20.41	14.34	32.48	22.99	1.79	1.20
May .....	6.62	21.61	13.24	33.72	21.18	2.58	1.05
June .....	5.61	21.20	14.04	34.47	21.11	2.02	1.54
July .....	7.20	22.66	14.93	31.15	22.08	0.88	1.10
August .....	6.61	24.56	12.00	33.24	21.48	0.86	1.26
September .....	6.49	25.83	12.65	34.68	18.36	1.03	0.96

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**Table 29. F.O.B.<sup>a</sup> Costs of Imported Crude Oil for Selected Crude Streams**  
(Dollars per Barrel)

Year Quarter Month	Angolan Cabinda	Canadian Bow River	Canadian Lloydminster	Ecuadorian Oriente	Gabon Rabi-Kouanga
1978 Average .....	13.32	—	—	12.87	—
1979 Average .....	20.35	—	—	27.59	—
1980 Average .....	33.24	—	W	34.51	—
1981 Average .....	35.55	W	W	32.66	—
1982 Average .....	31.86	W	W	32.36	—
1983 Average .....	28.14	W	24.54	28.22	—
1984 Average .....	27.58	W	24.70	28.16	—
1985 Average .....	26.30	24.55	23.79	26.12	—
1986 Average .....	13.39	11.47	12.77	13.32	—
1987 Average .....	17.31	15.63	15.12	16.53	—
1988 Average .....	14.52	11.82	11.28	12.96	—
1989 Average .....	17.15	14.94	W	16.26	—
1990 Average .....	W	18.57	18.50	W	—
1991 Average .....	W	13.44	13.51	16.04	18.21
1992 Average .....	18.46	14.04	W	17.60	19.01
1993 Average .....	15.65	12.76	W	14.57	16.56
1994 Average .....	15.15	12.86	W	13.70	15.67
1995 Average .....	16.37	14.70	14.44	16.29	17.08
<b>1996</b>					
January .....	16.75	13.88	12.95	16.20	W
February .....	17.89	14.58	13.38	W	18.15
March .....	19.63	17.25	W	18.89	20.72
<b>1st Quarter Average</b> .....	18.19	15.17	14.18	17.31	18.83
April .....	20.81	19.43	19.05	W	21.28
May .....	19.37	17.97	17.36	W	19.74
June .....	18.58	17.28	17.00	W	W
<b>2nd Quarter Average</b> .....	19.45	18.24	17.75	18.28	20.12
July .....	19.60	17.70	17.50	W	W
August .....	20.08	W	W	W	W
September .....	21.95	W	19.49	W	23.09
<b>3rd Quarter Average</b> .....	20.51	18.76	18.21	18.95	21.47
October .....	22.95	21.15	19.85	W	W
November .....	21.54	19.93	17.34	W	W
December .....	W	19.57	17.62	W	W
<b>4th Quarter Average</b> .....	22.37	20.10	18.33	21.61	23.64
<b>1996 Average</b> .....	<b>20.44</b>	<b>18.19</b>	<b>17.14</b>	<b>18.84</b>	<b>20.97</b>
<b>1997</b>					
January .....	W	W	18.06	W	23.45
February .....	W	16.71	16.01	W	19.86
March .....	17.71	W	14.69	W	W
<b>1st Quarter Average</b> .....	19.51	17.27	16.39	W	21.59
April .....	W	15.29	14.14	W	17.19
May .....	17.79	15.20	14.51	W	W
June .....	W	14.42	13.41	W	W
<b>2nd Quarter Average</b> .....	17.10	14.96	14.06	W	17.57
July .....	17.35	14.37	13.79	W	18.06
August .....	17.54	14.97	14.47	W	W
September .....	17.44	14.70	14.21	—	W
<b>3rd Quarter Average</b> .....	17.44	14.71	14.17	W	18.09

See footnotes at end of table.

**Table 29. F.O.B.<sup>a</sup> Costs of Imported Crude Oil for Selected Crude Streams**

(Dollars per Barrel) — Continued

Year Quarter Month	Mexican Mayan	Mexican Olmeca	Nigerian Forcados Blend	Venezuelan Furrial	Venezuelan Leona
1978 Average .....	—	—	—	—	—
1979 Average .....	21.50	—	—	—	—
1980 Average .....	28.73	—	—	—	—
1981 Average .....	30.82	—	38.19	—	32.94
1982 Average .....	25.29	—	34.78	—	W
1983 Average .....	23.99	—	29.55	—	W
1984 Average .....	25.35	—	29.04	—	—
1985 Average .....	24.23	—	27.78	—	W
1986 Average .....	10.93	—	14.32	—	11.14
1987 Average .....	15.72	—	18.97	—	16.27
1988 Average .....	11.26	13.63	14.63	—	13.95
1989 Average .....	14.71	18.69	17.87	W	16.01
1990 Average .....	17.29	23.64	21.47	22.48	20.44
1991 Average .....	13.02	20.08	20.09	16.84	15.80
1992 Average .....	13.42	19.55	19.90	16.09	15.65
1993 Average .....	12.03	16.98	17.81	13.78	12.97
1994 Average .....	12.39	16.03	16.52	14.08	12.00
1995 Average .....	14.37	17.32	17.43	15.98	13.58
<b>1996</b>					
January .....	14.85	18.74	W	16.75	13.31
February .....	15.32	18.23	W	17.27	15.05
March .....	16.66	20.43	20.75	19.59	17.93
1st Quarter Average .....	15.58	19.12	19.89	18.16	15.08
April .....	17.69	22.07	W	21.09	18.18
May .....	16.34	20.03	19.80	19.44	15.87
June .....	15.80	19.52	19.68	18.27	15.84
2nd Quarter Average .....	16.61	20.67	20.32	19.70	16.63
July .....	16.14	20.46	W	19.30	17.29
August .....	17.17	21.26	W	20.44	17.59
September .....	19.36	23.47	W	22.24	19.42
3rd Quarter Average .....	17.62	21.73	W	20.58	18.02
October .....	20.81	24.73	25.26	22.59	W
November .....	19.15	23.48	W	22.11	W
December .....	19.36	24.82	W	23.58	W
4th Quarter Average .....	19.81	24.40	25.01	22.73	W
1996 Average .....	17.43	21.56	21.45	20.42	17.13
<b>1997</b>					
January .....	18.62	24.61	24.58	22.97	W
February .....	15.97	22.26	22.74	19.29	15.89
March .....	14.89	19.87	W	17.31	W
1st Quarter Average .....	16.56	22.34	22.66	19.81	W
April .....	14.49	18.40	W	16.73	W
May .....	15.34	19.40	19.06	16.98	W
June .....	14.12	17.76	W	16.08	W
2nd Quarter Average .....	14.65	18.50	18.27	16.60	W
July .....	14.43	18.36	19.28	16.53	W
August .....	14.98	18.74	W	16.86	15.27
September .....	14.86	18.55	W	W	W
3rd Quarter Average .....	14.77	18.54	19.32	16.82	15.56

Dash (—) = No data reported.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Free on Board. See Glossary.

Notes: Values through 1980 reflect the month of reporting; values since then reflect the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. Prices for crude oil can be determined at a time other than the acquisition date. See the Explanatory Notes section for additional detail.

Notes: Values for the current 2 months are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration, Form FEA-F701-M-0, "Transfer Pricing Report," January 1978 through December 1978; Form ERA-51, "Transfer Pricing Report," January 1979 through September 1982; Form EP-51, "Monthly Foreign Crude Oil Transaction Report," October 1982 through June 1984; Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report," July 1984 to present.

**Table 30. Landed Costs of Imported Crude Oil for Selected Crude Streams**

(Dollars per Barrel)

Year Quarter Month	Angolan Cabinda	Canadian Bow River Heavy	Canadian Lloydminster	Ecuadorian Oriente	Gabon Rabi-Kouanga	Mexican Mayan	Mexican Olmeca
1978 Average .....	14.07	—	—	13.85	—	—	—
1979 Average .....	21.51	—	—	29.17	—	22.23	—
1980 Average .....	34.68	—	W	34.61	—	29.49	—
1981 Average .....	36.84	W	W	33.56	—	31.52	—
1982 Average .....	33.08	28.94	W	32.97	—	25.86	—
1983 Average .....	29.31	25.62	25.27	28.90	—	24.56	—
1984 Average .....	28.63	25.46	25.35	28.79	—	25.84	—
1985 Average .....	27.48	25.42	24.38	26.97	—	24.57	—
1986 Average .....	14.27	12.71	13.52	14.39	—	11.24	—
1987 Average .....	18.43	16.49	15.98	17.60	—	16.03	—
1988 Average .....	14.96	12.68	12.21	13.77	—	11.65	14.07
1989 Average .....	18.15	15.99	15.36	17.69	—	15.14	19.09
1990 Average .....	20.01	19.32	19.55	21.63	—	17.75	23.78
1991 Average .....	18.31	14.31	14.63	17.52	19.51	13.62	20.45
1992 Average .....	19.59	15.01	W	18.52	19.70	13.80	19.91
1993 Average .....	16.95	13.56	13.65	15.79	17.51	12.45	17.43
1994 Average .....	16.07	13.90	13.58	15.24	16.73	12.79	16.54
1995 Average .....	17.31	15.77	15.56	16.84	18.15	14.88	17.80
<b>1996</b>							
January .....	17.90	15.14	14.07	16.50	W	15.47	18.97
February .....	18.60	15.59	14.51	16.19	19.33	15.83	18.68
March .....	20.72	17.97	17.17	19.84	21.55	17.31	20.96
<b>1st Quarter</b>							
Average .....	19.27	16.25	15.32	17.86	20.02	16.16	19.51
April .....	21.14	20.24	20.04	22.00	22.27	18.37	22.36
May .....	20.48	19.23	18.68	19.36	20.66	17.10	20.60
June .....	19.69	18.59	18.22	18.66	19.85	16.40	20.00
<b>2nd Quarter</b>							
Average .....	20.40	19.34	18.94	20.00	21.15	17.27	21.05
July .....	20.51	18.81	18.63	19.13	18.91	16.74	20.91
August .....	21.35	19.56	18.85	19.15	21.39	17.74	21.86
September .....	22.92	20.94	20.38	21.88	23.84	19.93	24.00
<b>3rd Quarter</b>							
Average .....	21.68	19.72	19.21	19.75	21.63	18.23	22.27
October .....	23.86	21.98	21.08	22.55	25.05	21.27	25.11
November .....	22.60	20.94	19.12	21.58	24.79	19.47	23.55
December .....	24.03	20.76	19.12	22.63	W	19.58	25.10
<b>4th Quarter</b>							
Average .....	23.50	21.17	19.82	22.20	24.93	20.17	24.64
<b>1996 Average</b> .....	<b>21.56</b>	<b>19.18</b>	<b>18.50</b>	<b>19.91</b>	<b>21.79</b>	<b>17.95</b>	<b>21.89</b>
<b>1997</b>							
January .....	23.98	20.83	19.55	24.63	24.60	19.21	25.13
February .....	21.33	18.73	17.84	20.28	20.97	16.56	22.63
March .....	19.55	17.33	16.23	18.31	W	15.49	20.20
<b>1st Quarter</b>							
Average .....	21.81	18.80	17.96	20.67	22.45	17.07	22.65
April .....	18.02	16.04	15.43	17.71	18.41	15.14	18.98
May .....	19.04	16.21	15.66	17.41	W	15.97	19.88
June .....	W	15.45	14.78	17.30	W	14.78	18.29
<b>2nd Quarter</b>							
Average .....	18.43	15.93	15.31	17.45	18.85	15.30	19.06
July .....	18.26	15.50	15.14	15.97	19.49	15.00	18.83
August .....	18.65	16.05	15.61	16.72	W	15.53	19.18
September .....	18.81	15.81	15.39	16.05	W	15.37	18.95
<b>3rd Quarter</b>							
Average .....	18.52	15.80	15.38	16.27	19.42	15.31	18.99

See footnotes at end of table.

**Table 30. Landed Costs of Imported Crude Oil for Selected Crude Streams**

(Dollars per Barrel) — Continued

Year Quarter Month	Nigerian Bonny Light	Nigerian Forcados Blend	Saudi Arabian Light	Saudi Arabian Medium	United Kingdom Brent	Venezuelan Furrial	Venezuelan Leona
1978 Average .....	15.04	—	14.04	—	—	—	—
1979 Average .....	27.11	—	19.18	—	23.26	—	—
1980 Average .....	38.58	—	29.57	—	34.57	—	—
1981 Average .....	39.25	40.15	34.32	32.74	37.58	—	33.60
1982 Average .....	36.45	35.57	35.65	32.56	34.53	—	W
1983 Average .....	31.06	30.46	30.95	29.16	31.26	—	W
1984 Average .....	30.46	30.11	30.61	29.09	29.89	—	—
1985 Average .....	28.98	28.65	25.35	W	28.49	—	W
1986 Average .....	15.00	14.52	13.06	W	14.64	—	11.80
1987 Average .....	19.26	19.65	17.88	W	18.71	—	16.81
1988 Average .....	16.02	15.41	14.04	13.05	15.84	—	14.50
1989 Average .....	19.38	18.86	17.96	16.83	18.83	16.78	16.68
1990 Average .....	23.21	22.71	22.49	20.98	24.40	23.26	21.28
1991 Average .....	21.57	21.13	18.49	17.04	21.65	17.69	16.40
1992 Average .....	20.85	20.67	18.54	17.14	20.68	16.80	16.21
1993 Average .....	18.75	18.65	16.62	14.86	18.02	14.71	13.76
1994 Average .....	17.23	17.32	15.83	14.81	16.65	14.95	12.81
1995 Average .....	18.35	18.19	17.17	16.54	17.96	16.78	14.40
<b>1996</b>							
January .....	W	19.75	18.20	17.87	18.41	17.61	14.31
February .....	19.16	19.55	19.34	18.25	19.31	17.96	16.00
March .....	20.82	21.52	20.30	19.01	18.80	20.45	18.23
<b>1st Quarter</b>							
Average .....	19.73	20.35	19.37	18.44	18.84	18.97	15.91
April .....	W	22.88	20.49	20.41	20.87	22.03	19.38
May .....	22.10	20.55	19.97	19.18	21.40	20.57	16.79
June .....	19.95	20.19	19.34	18.35	20.55	19.25	16.71
<b>2nd Quarter</b>							
Average .....	20.55	20.89	19.99	19.34	21.04	20.74	17.71
July .....	20.31	20.92	20.21	19.24	19.82	19.98	18.20
August .....	21.37	21.92	21.20	20.27	20.78	20.98	18.23
September .....	23.82	23.91	22.20	21.26	22.07	22.85	19.79
<b>3rd Quarter</b>							
Average .....	22.28	22.34	21.25	20.25	20.75	21.25	18.74
October .....	W	25.82	23.26	22.56	23.15	23.42	W
November .....	—	W	23.16	22.09	24.48	22.64	W
December .....	—	W	22.56	21.45	24.26	24.28	W
<b>4th Quarter</b>							
Average .....	W	25.48	22.97	21.93	24.08	23.39	W
<b>1996 Average</b> .....	<b>21.69</b>	<b>21.89</b>	<b>20.86</b>	<b>20.12</b>	<b>20.94</b>	<b>21.18</b>	<b>17.99</b>
<b>1997</b>							
January .....	W	25.76	22.07	20.18	24.80	23.89	W
February .....	W	23.96	18.99	17.81	24.33	20.11	16.70
March .....	W	20.12	18.64	17.39	23.59	18.18	W
<b>1st Quarter</b>							
Average .....	W	23.79	19.91	18.70	24.39	20.72	W
April .....	W	19.10	17.82	17.10	19.40	17.59	W
May .....	19.74	19.98	17.66	16.57	20.01	17.98	W
June .....	W	19.14	17.42	16.64	19.63	17.15	W
<b>2nd Quarter</b>							
Average .....	19.79	19.40	17.65	16.76	19.67	17.58	W
July .....	—	19.95	17.33	16.74	18.73	17.26	W
August .....	W	20.06	18.20	17.01	19.44	17.56	16.12
September .....	W	20.30	18.22	17.92	W	W	W
<b>3rd Quarter</b>							
Average .....	20.73	20.13	17.86	17.09	19.18	17.50	16.43

Dash (—) = No data reported.

W = Withheld to avoid disclosure of individual company data.

Notes: Values through 1980 reflect the month of reporting; values since then reflect the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. Prices for crude oil can be determined at a time other than the acquisition date. See the Explanatory Notes section for additional detail.

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# Prices of Petroleum Products



**Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>United States</b>												
September 1997 .....	82.9	82.5	77.7	67.6	62.8	69.8	91.4	90.8	84.2	71.3	W	77.7
August 1997 .....	82.9	82.6	77.5	71.6	65.4	72.4	91.2	90.8	83.6	75.6	W	79.6
September 1996 .....	81.1	81.0	74.9	67.8	61.9	69.2	89.1	88.7	80.1	71.6	W	76.2
<b>PAD District I</b>												
September 1997 .....	81.0	80.5	76.0	65.8	63.7	69.0	90.0	89.2	82.0	69.8	—	75.9
August 1997 .....	80.2	80.0	76.1	70.5	67.0	72.0	89.3	89.0	82.3	74.6	—	78.4
September 1996 .....	78.0	77.6	73.4	65.7	62.4	67.9	87.1	86.5	79.8	70.1	—	74.9
<b>Subdistrict IA</b>												
September 1997 .....	89.1	88.1	81.0	71.1	64.9	74.1	98.2	96.8	87.9	75.3	—	82.3
August 1997 .....	87.1	86.7	80.6	75.3	69.2	76.6	96.5	95.7	87.5	79.5	—	83.9
September 1996 .....	83.0	82.8	77.4	69.3	63.5	71.4	92.4	91.3	83.5	72.9	—	79.0
<b>Connecticut</b>												
September 1997 .....	88.0	87.6	80.6	71.4	63.6	74.7	97.4	95.0	86.4	75.1	—	81.4
August 1997 .....	86.5	86.2	77.0	75.3	W	75.4	96.4	94.7	84.4	79.2	—	82.2
September 1996 .....	80.9	80.6	75.5	69.7	64.1	70.7	90.7	88.7	80.8	73.3	—	77.7
<b>Maine</b>												
September 1997 .....	91.0	90.8	79.8	70.7	69.0	72.6	100.5	99.6	86.2	74.9	—	79.1
August 1997 .....	89.3	89.2	81.6	74.8	W	74.6	99.3	99.0	88.1	79.0	—	82.1
September 1996 .....	84.6	84.5	77.1	68.5	W	68.5	94.9	93.9	87.5	71.8	—	77.1
<b>Massachusetts</b>												
September 1997 .....	89.0	87.4	81.1	70.8	64.0	73.4	98.1	96.7	89.3	75.3	—	83.7
August 1997 .....	86.4	85.7	82.2	75.6	71.2	77.5	95.9	95.1	89.4	79.9	—	85.6
September 1996 .....	82.7	82.5	78.3	69.5	64.2	72.3	92.1	91.4	84.5	73.2	—	80.5
<b>New Hampshire</b>												
September 1997 .....	89.1	88.8	82.0	70.1	—	77.8	98.1	97.5	87.4	74.9	—	85.0
August 1997 .....	87.5	87.3	82.5	74.3	—	79.8	96.0	95.5	87.8	78.9	—	86.3
September 1996 .....	84.3	84.1	77.7	69.9	—	75.3	94.4	93.8	82.4	74.2	—	80.8
<b>Rhode Island</b>												
September 1997 .....	86.2	86.1	82.1	72.8	—	75.5	94.1	93.7	87.6	77.0	—	81.7
August 1997 .....	84.3	84.2	80.4	76.8	—	77.8	93.2	93.2	86.4	80.7	—	82.9
September 1996 .....	78.8	78.7	75.3	69.5	W	70.2	87.7	87.5	80.5	73.0	—	76.5
<b>Vermont</b>												
September 1997 .....	89.6	86.6	81.9	70.7	—	78.1	98.8	97.6	89.1	75.7	—	85.2
August 1997 .....	88.1	87.7	82.9	73.6	—	79.8	97.0	95.9	89.1	77.5	—	85.9
September 1996 .....	88.5	87.9	80.3	69.4	—	77.0	97.2	95.9	86.5	73.6	—	82.9
<b>Subdistrict IB</b>												
September 1997 .....	83.7	83.2	78.4	68.5	63.8	71.1	92.3	91.6	84.2	73.0	—	79.9
August 1997 .....	81.5	81.4	77.2	71.6	67.0	72.6	90.6	90.1	83.2	75.8	—	80.2
September 1996 .....	79.1	78.7	73.8	67.0	62.0	68.4	87.4	86.8	80.6	71.5	—	77.0
<b>Delaware</b>												
September 1997 .....	81.9	81.4	75.7	69.8	—	72.2	91.7	90.7	81.3	73.4	—	77.5
August 1997 .....	80.0	79.8	74.0	70.2	—	71.5	89.7	89.3	79.8	74.2	—	76.7
September 1996 .....	80.6	80.4	73.8	67.4	W	70.7	90.2	89.6	80.3	71.0	—	76.2
<b>District of Columbia</b>												
September 1997 .....	W	75.8	80.3	—	—	80.3	W	85.6	83.3	—	—	83.3
August 1997 .....	W	78.3	78.9	—	—	78.9	W	86.4	81.8	—	—	81.8
September 1996 .....	W	74.6	79.2	—	—	79.2	W	85.7	83.2	—	—	83.2
<b>Maryland</b>												
September 1997 .....	83.8	82.2	76.6	65.9	—	72.2	92.0	89.0	82.1	69.7	—	78.3
August 1997 .....	83.1	81.7	75.0	70.4	W	73.1	91.3	88.8	80.2	74.2	—	78.3
September 1996 .....	83.2	81.3	76.1	66.4	65.7	72.3	92.1	88.2	81.4	70.6	—	78.4
<b>New Jersey</b>												
September 1997 .....	87.1	85.4	81.9	69.6	63.8	70.0	97.5	96.6	87.9	76.9	—	84.3
August 1997 .....	83.3	83.2	80.1	73.5	66.4	71.3	94.1	93.6	86.4	79.2	—	83.9
September 1996 .....	80.6	79.9	75.3	67.7	61.6	66.1	92.7	91.8	81.4	73.3	—	78.2
<b>New York</b>												
September 1997 .....	86.1	85.6	81.0	69.7	65.6	73.9	95.3	94.0	88.7	74.0	—	83.7
August 1997 .....	83.2	83.0	78.8	72.5	72.8	75.1	92.9	92.2	87.3	77.0	—	83.5
September 1996 .....	79.7	79.2	72.8	67.6	64.3	70.0	87.2	86.6	81.8	72.8	—	78.9
<b>Pennsylvania</b>												
September 1997 .....	81.1	81.0	74.3	67.5	62.7	69.5	89.8	89.6	79.1	72.0	—	75.5
August 1997 .....	79.7	79.8	74.6	70.5	70.1	71.9	88.6	88.5	79.5	74.5	—	76.9
September 1996 .....	77.3	77.2	71.8	66.3	62.7	67.8	85.1	84.9	77.3	70.5	—	73.5

See footnotes at end of table.

**Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>United States</b>												
September 1997 .....	99.3	98.5	91.0	76.9	69.0	82.1	86.4	85.9	81.1	69.3	63.3	72.4
August 1997 .....	99.3	98.4	90.7	81.3	74.1	84.7	86.4	86.0	81.0	73.5	66.2	75.0
September 1996 .....	97.3	96.5	87.2	77.0	68.3	80.8	84.6	84.3	78.1	69.6	62.5	71.8
<b>PAD District I</b>												
September 1997 .....	98.5	97.3	89.9	76.0	68.5	81.6	85.4	84.8	80.2	68.1	64.5	72.3
August 1997 .....	97.7	96.8	89.8	80.9	78.7	84.8	84.6	84.4	80.3	72.9	68.4	75.3
September 1996 .....	96.0	94.9	87.2	75.8	67.4	80.5	82.6	82.1	77.9	68.1	63.1	71.4
<b>Subdistrict IA</b>												
September 1997 .....	106.6	103.9	93.3	81.1	72.3	86.2	92.6	91.5	84.1	73.0	65.6	76.8
August 1997 .....	104.9	103.5	94.0	85.7	W	89.5	91.0	90.5	84.0	77.5	70.2	79.5
September 1996 .....	100.8	99.6	90.0	79.0	69.5	83.3	86.9	86.6	80.8	71.3	64.2	74.3
<b>Connecticut</b>												
September 1997 .....	107.4	105.7	93.0	81.7	W	85.1	92.3	91.5	83.5	73.5	65.5	77.3
August 1997 .....	105.9	104.7	91.5	85.5	W	87.7	90.9	90.4	80.5	77.5	W	78.2
September 1996 .....	100.5	99.0	87.9	80.4	W	83.8	85.5	84.9	78.9	72.2	64.3	73.7
<b>Maine</b>												
September 1997 .....	109.7	108.7	92.7	80.6	—	84.2	94.4	94.0	82.2	72.3	69.0	74.5
August 1997 .....	108.2	107.5	93.9	85.0	—	87.7	92.9	92.8	84.2	76.6	W	77.0
September 1996 .....	102.5	101.0	89.1	78.0	W	80.2	87.9	87.6	80.6	70.0	W	70.8
<b>Massachusetts</b>												
September 1997 .....	105.5	101.1	93.6	80.5	W	86.8	92.5	90.8	84.6	72.8	64.7	76.5
August 1997 .....	103.1	101.2	95.3	85.9	W	91.2	90.3	89.5	85.9	77.8	71.6	80.6
September 1996 .....	100.2	98.9	91.2	78.6	W	83.1	86.9	86.5	82.0	71.5	65.3	75.3
<b>New Hampshire</b>												
September 1997 .....	106.8	106.7	94.1	79.9	—	89.8	92.3	92.0	84.5	71.8	—	80.3
August 1997 .....	106.0	106.0	94.4	84.3	—	91.6	91.3	91.0	85.3	76.2	—	82.5
September 1996 .....	101.7	101.3	90.1	81.0	—	87.8	88.0	87.8	80.5	71.9	—	78.0
<b>Rhode Island</b>												
September 1997 .....	101.3	100.9	94.9	82.9	—	86.9	89.4	89.3	85.4	74.9	—	78.2
August 1997 .....	100.5	100.4	93.5	86.9	—	88.8	87.9	87.9	83.9	79.1	—	80.5
September 1996 .....	95.7	95.4	88.3	78.8	—	82.4	82.9	82.8	78.8	71.6	W	72.9
<b>Vermont</b>												
September 1997 .....	106.5	105.3	91.7	80.7	—	89.3	92.6	89.5	84.7	72.5	—	80.9
August 1997 .....	104.8	104.2	94.5	83.6	—	90.9	91.2	90.8	85.3	75.4	—	82.1
September 1996 .....	105.9	105.4	92.3	78.9	—	88.2	92.0	91.4	82.9	71.4	—	79.4
<b>Subdistrict IB</b>												
September 1997 .....	101.1	100.1	92.7	78.7	68.1	84.4	87.8	87.2	82.9	70.7	64.6	74.8
August 1997 .....	98.5	97.9	91.2	82.3	79.1	86.7	85.8	85.6	81.7	74.0	68.6	76.3
September 1996 .....	96.4	95.2	88.0	76.9	66.9	81.5	83.5	82.9	78.7	69.4	62.8	72.2
<b>Delaware</b>												
September 1997 .....	101.0	99.7	89.4	79.8	—	84.0	86.1	85.5	79.0	71.8	—	74.9
August 1997 .....	98.4	97.9	88.1	80.1	—	83.1	84.5	84.3	77.5	72.3	—	74.2
September 1996 .....	99.8	98.8	87.8	76.8	—	82.5	85.1	84.7	77.2	69.6	W	73.4
<b>District of Columbia</b>												
September 1997 .....	W	91.5	89.3	—	—	89.3	W	81.2	84.7	—	—	84.7
August 1997 .....	W	92.5	87.5	—	—	87.5	W	83.2	83.2	—	—	83.2
September 1996 .....	W	89.9	91.1	—	—	91.1	W	80.4	85.1	—	—	85.1
<b>Maryland</b>												
September 1997 .....	98.2	95.9	87.0	75.3	W	83.3	87.6	85.8	80.1	68.1	W	75.6
August 1997 .....	97.5	95.4	85.0	80.0	W	83.4	86.9	85.4	78.5	72.8	W	76.3
September 1996 .....	99.0	95.9	87.8	76.7	W	84.6	87.5	85.0	79.9	69.0	66.1	76.1
<b>New Jersey</b>												
September 1997 .....	105.9	104.9	96.3	80.8	67.5	83.4	92.7	91.2	86.9	72.9	64.5	73.9
August 1997 .....	102.4	101.8	93.8	84.8	80.5	88.9	89.2	89.0	85.1	76.8	67.5	75.5
September 1996 .....	100.8	99.2	89.4	77.1	66.7	79.1	87.4	86.5	80.8	70.7	62.4	69.8
<b>New York</b>												
September 1997 .....	102.5	101.3	95.6	79.8	73.8	89.0	90.1	89.3	86.5	71.7	67.3	78.3
August 1997 .....	98.4	97.9	94.8	83.0	78.0	88.9	87.1	86.7	84.7	74.8	76.3	79.5
September 1996 .....	95.9	94.5	88.6	77.6	69.9	84.7	83.5	82.8	78.6	69.9	65.1	74.5
<b>Pennsylvania</b>												
September 1997 .....	97.9	97.3	87.2	77.2	67.7	80.2	85.0	84.8	77.3	69.5	63.9	71.9
August 1997 .....	96.5	96.1	86.6	81.0	78.0	83.0	83.7	83.6	77.5	72.6	71.9	74.4
September 1996 .....	93.6	92.9	84.1	76.3	67.0	78.6	81.3	81.1	75.2	68.5	63.6	70.5

See footnotes at end of table.

**Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Subdistrict IC</b>												
September 1997 .....	77.8	77.3	70.8	62.9	59.3	65.2	87.5	86.9	78.1	67.7	—	71.9
August 1997 .....	77.9	77.7	72.7	68.6	60.3	69.7	87.5	87.3	79.8	73.2	—	75.9
September 1996 .....	76.5	76.0	71.4	64.2	64.5	66.4	86.1	85.6	78.0	69.1	—	72.8
<b>Florida</b>												
September 1997 .....	79.1	78.4	73.7	62.9	W	65.7	89.3	88.8	82.1	67.5	—	73.7
August 1997 .....	79.3	78.8	74.7	68.5	—	70.3	89.2	89.2	83.2	72.9	—	77.3
September 1996 .....	79.1	78.4	73.9	64.4	W	67.4	89.3	88.4	81.2	69.2	—	75.0
<b>Georgia</b>												
September 1997 .....	76.0	75.7	68.0	62.1	W	63.9	85.7	84.8	73.2	68.0	—	70.3
August 1997 .....	76.2	76.1	69.4	68.0	W	67.8	85.8	85.8	75.4	73.4	—	74.3
September 1996 .....	73.4	73.3	68.0	63.7	W	65.1	83.6	83.2	73.2	69.2	—	70.9
<b>North Carolina</b>												
September 1997 .....	76.2	75.7	69.1	62.8	W	64.5	86.1	85.4	77.6	67.4	—	70.5
August 1997 .....	76.6	76.3	72.2	68.7	W	69.6	86.2	85.8	80.4	73.2	—	75.6
September 1996 .....	74.6	73.9	69.2	64.1	63.8	65.3	83.4	83.1	75.6	69.0	—	70.7
<b>South Carolina</b>												
September 1997 .....	74.7	74.8	66.7	62.6	W	63.6	84.6	84.5	72.8	67.8	—	69.3
August 1997 .....	74.8	75.4	69.5	68.5	—	68.7	84.6	84.6	75.6	73.3	—	74.1
September 1996 .....	72.1	72.0	70.1	64.0	W	65.4	83.1	82.7	76.1	69.2	—	70.9
<b>Virginia</b>												
September 1997 .....	80.9	80.4	73.9	63.8	61.5	67.2	90.2	89.3	79.6	67.7	—	73.3
August 1997 .....	80.7	80.4	75.2	69.8	67.3	71.5	89.9	89.3	80.4	73.5	—	76.7
September 1996 .....	79.3	78.9	74.2	64.6	W	67.9	88.5	87.8	79.8	68.7	—	74.0
<b>West Virginia</b>												
September 1997 .....	80.8	80.6	71.4	66.2	—	69.6	89.4	89.0	77.7	70.5	—	75.3
August 1997 .....	80.8	80.7	77.1	70.2	—	74.7	89.2	89.0	82.9	74.2	—	79.9
September 1996 .....	80.4	80.1	74.0	66.5	—	71.1	89.6	89.1	78.7	71.1	—	76.6
<b>PAD District II</b>												
September 1997 .....	80.7	80.6	71.5	66.0	62.0	67.1	88.0	87.7	78.3	69.7	—	73.5
August 1997 .....	83.8	83.6	76.5	72.3	65.0	72.8	91.1	90.7	82.8	76.5	—	79.4
September 1996 .....	80.4	80.4	73.1	68.3	63.1	69.2	88.3	88.1	79.7	72.5	—	76.2
<b>Illinois</b>												
September 1997 .....	82.8	82.5	77.1	66.1	62.5	68.5	89.9	89.6	82.5	70.4	—	78.3
August 1997 .....	85.7	85.6	80.7	72.5	63.0	73.0	93.1	92.8	86.8	77.2	—	83.6
September 1996 .....	81.7	81.8	78.5	68.1	61.5	71.1	91.8	91.7	86.1	74.8	—	83.0
<b>Indiana</b>												
September 1997 .....	79.6	79.0	70.0	64.3	62.1	66.0	87.2	86.4	76.3	68.3	—	72.1
August 1997 .....	82.8	82.1	74.5	70.7	64.6	71.3	90.1	89.2	80.1	75.2	—	77.5
September 1996 .....	77.9	78.2	70.5	66.5	63.5	67.6	86.1	86.3	77.2	72.1	—	74.8
<b>Iowa</b>												
September 1997 .....	82.3	82.5	71.9	67.4	—	67.9	85.7	85.8	75.6	71.4	—	72.4
August 1997 .....	82.7	82.9	75.7	73.2	—	73.5	88.0	87.8	80.3	80.6	—	80.5
September 1996 .....	82.1	82.4	74.7	69.9	W	70.4	88.4	86.8	80.0	76.8	—	78.5
<b>Kansas</b>												
September 1997 .....	79.6	79.4	71.2	67.2	W	66.8	86.7	86.7	77.4	71.2	—	74.8
August 1997 .....	81.8	81.7	76.2	72.8	68.6	72.6	89.2	89.1	80.1	77.3	—	78.9
September 1996 .....	80.1	80.1	71.7	68.8	63.7	68.2	87.2	87.2	77.9	74.2	—	76.2
<b>Kentucky</b>												
September 1997 .....	80.0	79.3	70.5	64.8	W	66.6	89.0	88.4	77.2	69.4	—	72.8
August 1997 .....	81.6	81.0	75.8	71.1	W	72.3	90.8	90.1	82.2	75.9	—	78.9
September 1996 .....	80.4	79.5	71.5	67.0	—	68.4	91.6	90.3	77.8	72.0	—	74.5
<b>Michigan</b>												
September 1997 .....	77.4	77.6	69.3	65.7	—	67.1	86.6	86.6	76.3	68.1	—	74.1
August 1997 .....	83.3	83.3	75.4	73.0	—	73.9	91.4	91.4	81.6	76.1	—	80.1
September 1996 .....	78.3	78.3	71.3	67.7	W	69.3	85.7	85.8	77.0	72.4	—	75.7
<b>Minnesota</b>												
September 1997 .....	91.4	90.8	76.0	69.8	W	71.1	97.1	96.8	82.7	72.7	—	75.5
August 1997 .....	91.6	90.3	80.7	75.3	W	76.2	97.5	97.2	85.4	78.3	—	80.9
September 1996 .....	91.1	90.3	76.5	73.2	66.5	73.3	98.8	97.1	86.7	80.3	—	82.5
<b>Missouri</b>												
September 1997 .....	80.7	81.1	72.8	66.4	—	68.7	89.8	89.7	81.0	71.1	—	77.6
August 1997 .....	82.3	82.7	76.4	72.2	W	73.5	91.1	91.5	84.1	77.1	—	81.3
September 1996 .....	78.2	78.2	72.5	67.8	W	69.0	86.6	86.4	77.7	73.6	—	76.5

See footnotes at end of table.

**Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Subdistrict IC</b>												
September 1997 .....	96.1	95.0	85.0	73.6	66.5	77.7	82.6	82.1	75.3	65.5	60.5	68.6
August 1997 .....	96.1	95.2	86.5	79.2	72.5	81.8	82.8	82.5	77.1	71.2	62.8	73.0
September 1996 .....	95.0	94.0	85.3	74.6	69.1	78.8	81.4	80.8	75.9	66.8	64.8	69.8
<b>Florida</b>												
September 1997 .....	96.9	95.2	89.1	73.7	W	80.5	84.0	83.3	79.9	65.6	W	70.2
August 1997 .....	97.1	95.8	90.2	79.0	—	84.2	84.2	83.9	81.0	71.1	—	74.6
September 1996 .....	97.3	96.1	88.7	74.8	W	81.8	84.1	83.3	79.9	67.0	W	72.0
<b>Georgia</b>												
September 1997 .....	94.6	93.9	79.6	73.2	—	75.4	80.7	80.4	71.2	64.7	W	66.8
August 1997 .....	94.6	93.7	81.7	79.0	W	79.8	80.8	80.9	73.0	70.6	59.5	70.8
September 1996 .....	93.1	92.1	79.6	73.9	—	76.0	78.5	78.3	71.3	66.2	W	68.0
<b>North Carolina</b>												
September 1997 .....	95.3	94.3	82.6	73.5	—	76.0	81.6	80.9	73.1	65.5	W	67.6
August 1997 .....	95.6	94.8	84.9	79.1	—	80.7	81.9	81.5	76.0	71.3	W	72.6
September 1996 .....	92.8	91.8	81.5	74.9	—	76.4	79.5	78.8	72.5	66.9	63.8	68.1
<b>South Carolina</b>												
September 1997 .....	93.8	93.3	79.0	73.6	—	74.8	79.5	79.5	69.7	65.2	W	66.3
August 1997 .....	93.0	92.6	81.9	79.2	—	79.9	79.5	79.8	72.5	71.0	—	71.4
September 1996 .....	92.4	91.6	82.9	74.8	—	76.7	77.2	76.9	73.2	66.5	W	68.1
<b>Virginia</b>												
September 1997 .....	98.2	97.5	86.3	73.9	W	79.0	85.5	85.0	77.9	66.2	62.2	70.5
August 1997 .....	98.1	97.4	87.0	79.7	W	82.3	85.4	85.0	78.9	72.1	69.2	74.6
September 1996 .....	96.5	95.7	87.1	74.8	W	80.3	84.1	83.5	78.4	67.1	W	71.5
<b>West Virginia</b>												
September 1997 .....	98.4	97.7	84.7	75.9	—	81.2	84.4	84.1	74.0	68.3	—	72.0
August 1997 .....	98.6	98.0	87.5	80.1	—	84.8	84.5	84.3	79.5	72.4	—	77.1
September 1996 .....	98.3	97.2	85.5	76.5	—	82.5	84.4	84.0	76.8	68.5	—	73.8
<b>PAD District II</b>												
September 1997 .....	95.1	94.5	83.9	74.3	67.9	77.7	83.2	83.0	74.2	67.3	62.2	68.9
August 1997 .....	98.4	97.7	88.4	80.9	71.5	83.4	86.3	86.0	79.0	73.6	65.2	74.6
September 1996 .....	95.0	94.6	84.7	76.5	67.0	79.3	83.0	82.9	75.7	69.6	63.2	71.0
<b>Illinois</b>												
September 1997 .....	98.7	98.1	88.6	75.7	—	82.4	85.9	85.6	80.5	67.6	62.5	71.4
August 1997 .....	101.8	101.4	92.9	82.8	W	87.3	88.9	88.7	84.2	74.1	63.1	76.0
September 1996 .....	98.0	97.7	90.8	77.7	—	84.3	85.3	85.3	82.4	69.8	61.5	74.5
<b>Indiana</b>												
September 1997 .....	92.7	91.7	81.9	73.5	W	76.6	82.5	81.8	72.6	65.9	62.2	68.0
August 1997 .....	96.7	95.5	86.0	80.8	—	83.1	85.6	84.9	76.9	72.4	64.6	73.4
September 1996 .....	93.0	92.9	82.1	76.4	W	78.9	81.2	81.4	73.3	68.4	63.7	70.0
<b>Iowa</b>												
September 1997 .....	91.3	91.3	80.4	75.2	—	76.0	83.3	83.4	73.6	68.4	—	69.1
August 1997 .....	91.9	91.9	84.6	80.9	—	81.5	83.9	84.1	77.7	74.7	—	75.1
September 1996 .....	92.5	92.3	83.8	78.3	—	79.2	83.0	83.3	76.2	70.5	W	71.2
<b>Kansas</b>												
September 1997 .....	93.0	92.1	80.5	74.6	W	75.5	81.1	80.7	72.6	67.8	W	67.6
August 1997 .....	95.7	94.9	84.5	80.4	W	80.9	83.3	83.0	77.3	73.4	68.8	73.3
September 1996 .....	93.7	93.4	80.3	76.4	W	76.7	81.6	81.5	73.0	69.5	63.8	69.1
<b>Kentucky</b>												
September 1997 .....	97.7	96.2	83.1	74.4	—	77.5	83.8	83.0	73.5	66.8	W	69.0
August 1997 .....	99.4	97.9	87.7	80.7	—	83.2	85.4	84.8	78.6	73.1	W	74.8
September 1996 .....	96.9	95.6	82.7	75.9	—	78.0	84.4	83.4	74.1	69.0	—	70.6
<b>Michigan</b>												
September 1997 .....	92.5	91.8	81.7	74.5	—	77.8	79.7	79.8	71.7	66.7	—	68.8
August 1997 .....	98.9	98.1	87.5	82.0	W	84.5	85.6	85.5	77.7	74.1	W	75.6
September 1996 .....	92.7	92.2	83.0	76.9	—	80.0	80.6	80.6	73.8	69.1	W	71.3
<b>Minnesota</b>												
September 1997 .....	103.0	102.6	86.6	75.8	W	78.7	92.7	92.1	77.4	70.5	W	72.0
August 1997 .....	103.0	102.5	90.0	81.6	W	83.8	93.0	91.7	82.1	76.0	W	77.1
September 1996 .....	103.3	102.7	88.0	81.5	W	82.4	92.6	91.8	78.6	74.2	67.0	74.5
<b>Missouri</b>												
September 1997 .....	97.6	97.5	86.7	74.3	—	80.8	83.0	83.3	75.9	67.4	—	70.7
August 1997 .....	99.6	99.5	88.6	80.4	—	83.9	84.7	85.0	78.7	73.2	W	75.0
September 1996 .....	95.7	95.3	83.1	75.9	—	78.4	80.9	80.8	74.6	68.9	W	70.6

See footnotes at end of table.

**Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Nebraska</b>												
September 1997 .....	81.5	81.8	70.6	67.5	—	67.9	86.0	85.3	75.1	71.7	—	72.4
August 1997 .....	83.1	83.4	74.8	73.0	—	73.2	87.4	86.7	79.2	77.7	—	78.0
September 1996 .....	82.1	82.2	75.3	69.6	W	70.7	89.0	88.9	79.0	78.6	—	78.7
<b>North Dakota</b>												
September 1997 .....	89.1	89.4	76.1	69.9	—	71.1	97.2	96.8	80.8	75.0	—	77.5
August 1997 .....	90.9	90.8	78.9	74.4	—	75.2	98.5	97.2	84.1	80.3	—	82.1
September 1996 .....	90.9	90.7	80.8	72.3	—	73.9	96.4	94.7	78.8	81.0	—	79.8
<b>Ohio</b>												
September 1997 .....	78.9	78.6	69.2	63.8	60.3	65.8	86.6	86.2	75.6	66.9	—	71.8
August 1997 .....	84.8	84.5	76.2	70.8	63.8	72.8	92.8	92.3	82.5	74.0	—	79.0
September 1996 .....	77.9	77.7	71.2	66.8	W	68.6	86.0	85.6	76.7	71.1	—	74.4
<b>Oklahoma</b>												
September 1997 .....	77.3	77.2	68.7	66.0	61.8	64.4	83.7	83.0	73.0	68.8	—	71.2
August 1997 .....	79.5	79.3	73.5	71.7	65.6	69.4	86.0	85.3	78.6	74.4	—	77.0
September 1996 .....	76.2	75.9	71.6	67.7	62.6	65.6	82.3	81.9	76.7	71.1	—	74.1
<b>South Dakota</b>												
September 1997 .....	87.4	87.6	76.9	69.5	—	71.3	90.0	90.5	NA	NA	—	NA
August 1997 .....	88.0	87.6	79.3	74.5	—	75.7	90.9	91.3	83.6	NA	—	79.0
September 1996 .....	88.1	88.3	79.7	72.0	—	74.1	95.0	94.7	NA	W	—	NA
<b>Tennessee</b>												
September 1997 .....	76.0	75.9	71.6	63.1	—	64.5	86.7	86.6	79.7	68.2	—	70.7
August 1997 .....	76.8	76.5	73.0	69.1	—	69.8	86.6	86.4	80.7	74.0	—	75.5
September 1996 .....	77.1	76.7	71.9	64.1	W	65.4	87.5	87.3	77.7	69.2	—	71.2
<b>Wisconsin</b>												
September 1997 .....	81.8	81.4	71.7	66.4	W	67.4	89.7	90.0	79.2	70.9	—	73.6
August 1997 .....	85.3	85.0	77.9	73.4	W	74.2	91.9	91.9	84.5	78.1	—	80.2
September 1996 .....	83.0	82.9	73.4	68.9	—	70.3	90.4	91.1	79.4	74.3	—	76.2
<b>PAD District III</b>												
September 1997 .....	78.5	77.9	70.9	64.2	59.0	63.2	88.0	87.4	77.1	68.1	—	70.8
August 1997 .....	79.1	78.7	73.4	68.8	62.6	67.1	88.5	88.0	78.9	72.9	—	74.7
September 1996 .....	77.9	77.5	71.9	64.8	58.5	64.0	86.8	86.1	75.3	68.7	—	71.3
<b>Alabama</b>												
September 1997 .....	79.7	79.3	70.1	62.8	—	64.9	89.3	88.7	76.6	67.8	—	71.0
August 1997 .....	79.2	78.8	71.8	68.6	—	69.5	88.9	88.4	78.1	73.5	—	75.1
September 1996 .....	77.4	77.2	74.4	64.0	W	66.2	86.3	85.8	80.8	69.0	—	72.5
<b>Arkansas</b>												
September 1997 .....	77.2	76.2	67.5	64.5	W	64.5	86.1	85.2	71.0	67.9	—	68.7
August 1997 .....	78.2	77.6	71.1	70.1	W	70.0	86.8	86.0	75.0	73.5	—	73.9
September 1996 .....	75.8	74.8	70.7	65.0	W	65.3	84.5	83.1	75.7	68.9	—	70.5
<b>Louisiana</b>												
September 1997 .....	77.0	76.5	73.7	62.6	59.5	63.9	87.2	86.3	79.8	67.2	—	71.1
August 1997 .....	76.9	76.6	75.5	67.7	63.1	68.4	87.1	86.5	81.2	72.2	—	74.9
September 1996 .....	75.7	75.4	69.4	62.9	59.1	62.6	85.9	85.2	74.9	67.4	—	69.8
<b>Mississippi</b>												
September 1997 .....	80.0	79.2	72.0	62.1	60.3	63.6	89.5	89.0	77.7	66.6	—	70.3
August 1997 .....	80.6	80.0	75.4	67.6	64.0	68.1	89.5	89.1	80.7	72.3	—	74.9
September 1996 .....	80.3	80.0	70.8	63.4	58.7	63.6	90.3	89.8	76.6	68.4	—	70.3
<b>New Mexico</b>												
September 1997 .....	86.6	86.2	NA	72.4	—	72.7	95.1	94.7	NA	76.6	—	76.4
August 1997 .....	86.1	85.7	74.5	71.5	—	72.0	94.6	94.4	76.2	75.7	—	75.9
September 1996 .....	88.4	88.1	78.1	75.1	—	75.7	96.7	96.7	82.5	80.5	—	80.9
<b>Texas</b>												
September 1997 .....	77.7	77.3	70.6	64.3	58.9	62.2	87.4	86.8	77.5	68.0	—	70.6
August 1997 .....	78.7	78.4	73.4	68.8	62.5	66.0	88.2	87.8	79.3	72.7	—	74.5
September 1996 .....	77.4	77.0	71.8	64.5	58.4	63.2	86.3	85.6	74.3	68.2	—	71.1
<b>PAD District IV</b>												
September 1997 .....	87.9	87.8	80.7	76.1	W	77.1	97.9	97.3	85.7	80.4	—	82.6
August 1997 .....	87.8	87.5	78.8	75.7	W	76.4	97.4	96.7	84.8	80.0	—	82.1
September 1996 .....	89.4	89.8	82.0	77.3	—	78.5	97.7	96.9	86.1	82.2	—	83.8
<b>Colorado</b>												
September 1997 .....	86.8	86.5	78.6	71.7	W	72.9	98.6	98.0	85.3	75.6	—	79.0
August 1997 .....	87.4	87.1	79.3	74.3	W	75.2	99.0	98.5	86.1	77.8	—	80.9
September 1996 .....	87.6	87.6	79.1	72.6	—	74.2	97.8	97.4	85.6	77.1	—	80.9

See footnotes at end of table.

**Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Nebraska</b>												
September 1997 .....	92.9	92.9	81.0	76.0	—	77.0	82.8	82.9	72.4	68.6	—	69.2
August 1997 .....	96.9	96.8	84.5	81.3	—	81.9	84.6	84.5	76.5	74.2	—	74.5
September 1996 .....	92.0	97.5	83.6	77.3	—	79.0	83.1	83.6	76.1	70.3	W	71.4
<b>North Dakota</b>												
September 1997 .....	94.5	94.3	84.7	78.5	—	80.3	90.0	90.3	77.0	70.4	—	71.8
August 1997 .....	97.4	97.0	88.7	83.2	—	84.8	91.9	91.7	80.1	75.0	—	76.0
September 1996 .....	100.1	99.9	89.7	81.6	—	83.9	91.7	91.4	81.2	72.9	—	74.6
<b>Ohio</b>												
September 1997 .....	93.9	93.3	81.7	73.3	W	77.1	81.9	81.6	71.9	65.2	61.8	67.9
August 1997 .....	99.8	99.0	88.8	80.5	W	84.8	87.8	87.3	78.9	72.3	64.2	75.0
September 1996 .....	93.8	93.2	83.6	76.1	—	79.7	81.0	80.7	73.8	68.4	W	70.8
<b>Oklahoma</b>												
September 1997 .....	90.1	89.8	75.2	73.5	W	73.1	79.5	79.3	69.7	67.0	61.9	65.2
August 1997 .....	92.0	91.7	80.8	78.9	W	79.1	81.7	81.5	74.9	72.8	65.8	70.4
September 1996 .....	88.9	87.8	80.6	75.2	66.1	74.4	78.3	78.0	73.1	68.8	62.8	66.6
<b>South Dakota</b>												
September 1997 .....	98.3	98.4	85.1	78.7	—	80.3	88.7	88.8	77.6	70.2	—	72.0
August 1997 .....	100.4	100.6	86.9	83.2	—	84.2	89.3	89.1	80.3	75.4	—	76.6
September 1996 .....	100.2	99.7	88.5	82.5	—	84.2	89.5	89.6	80.5	73.0	—	75.0
<b>Tennessee</b>												
September 1997 .....	95.5	95.0	85.1	73.4	—	75.3	81.3	81.1	75.5	65.8	—	67.4
August 1997 .....	95.7	95.2	87.9	79.5	—	80.9	81.8	81.5	77.2	71.8	—	72.7
September 1996 .....	95.5	95.0	84.4	74.2	—	76.0	82.5	82.1	75.4	66.9	W	68.3
<b>Wisconsin</b>												
September 1997 .....	93.7	93.2	82.4	74.9	—	76.5	83.6	83.2	73.5	67.5	W	68.6
August 1997 .....	96.5	95.7	87.9	82.3	—	83.4	86.8	86.5	79.6	74.6	W	75.5
September 1996 .....	95.2	94.5	83.5	77.8	—	79.8	84.9	84.7	75.1	70.2	—	71.7
<b>PAD District III</b>												
September 1997 .....	95.6	94.7	83.2	73.8	64.3	74.5	82.6	81.9	74.0	66.1	59.3	65.2
August 1997 .....	96.7	95.8	85.6	78.7	68.9	78.6	83.2	82.7	76.5	70.8	63.0	69.3
September 1996 .....	95.2	94.1	81.7	74.3	63.8	74.9	82.0	81.4	74.4	66.7	58.9	66.2
<b>Alabama</b>												
September 1997 .....	97.7	96.8	83.5	73.6	—	76.4	84.5	84.0	73.7	65.6	—	68.0
August 1997 .....	97.9	96.9	85.0	79.5	—	81.1	84.0	83.6	75.5	71.4	—	72.6
September 1996 .....	95.5	94.5	87.7	74.5	—	77.5	82.1	81.9	78.2	66.7	W	69.3
<b>Arkansas</b>												
September 1997 .....	89.5	89.0	77.5	74.1	W	73.5	80.5	79.3	69.6	66.3	W	66.3
August 1997 .....	95.0	92.2	81.1	79.4	W	78.9	81.3	80.4	73.3	71.8	W	71.8
September 1996 .....	92.1	89.5	81.2	74.7	—	76.1	79.2	77.8	73.2	67.0	W	67.4
<b>Louisiana</b>												
September 1997 .....	95.3	93.9	85.4	72.6	64.4	73.6	82.0	81.3	77.2	65.1	60.5	66.6
August 1997 .....	95.4	94.4	87.8	77.5	W	77.8	81.9	81.5	79.1	70.2	64.6	71.1
September 1996 .....	93.7	92.7	81.6	72.6	63.5	73.9	80.7	80.3	73.6	65.4	59.5	65.4
<b>Mississippi</b>												
September 1997 .....	98.8	96.7	84.1	72.4	—	75.0	84.7	83.7	74.6	64.4	60.3	65.9
August 1997 .....	98.3	96.3	87.2	78.0	65.3	77.2	84.9	84.3	78.0	70.0	64.2	70.3
September 1996 .....	98.7	97.9	83.6	74.1	W	75.1	84.8	84.4	74.1	65.9	59.3	66.2
<b>New Mexico</b>												
September 1997 .....	101.5	100.9	NA	81.7	—	82.8	89.2	88.8	NA	73.9	—	74.3
August 1997 .....	101.4	100.9	88.3	80.7	—	82.9	88.7	88.4	77.6	73.0	—	74.0
September 1996 .....	104.2	103.7	88.4	84.4	—	85.0	91.1	90.8	79.4	76.5	—	77.1
<b>Texas</b>												
September 1997 .....	95.0	94.4	83.0	73.9	64.2	73.7	81.7	81.1	73.8	66.0	59.2	63.8
August 1997 .....	96.3	95.9	85.4	78.6	69.6	78.0	82.7	82.3	76.5	70.5	62.8	67.8
September 1996 .....	94.7	93.7	80.5	73.9	63.8	73.9	81.4	80.9	73.9	66.1	58.8	65.1
<b>PAD District IV</b>												
September 1997 .....	104.8	103.9	90.1	86.4	W	87.3	91.8	91.4	83.2	78.1	W	79.4
August 1997 .....	104.4	103.3	88.8	85.7	W	86.5	91.6	91.1	81.7	77.9	W	78.9
September 1996 .....	105.7	104.7	91.7	87.2	—	88.6	92.9	92.9	84.2	79.2	—	80.7
<b>Colorado</b>												
September 1997 .....	105.4	104.4	89.6	80.8	W	82.9	91.2	90.8	81.8	73.4	W	75.2
August 1997 .....	105.7	104.3	91.0	83.0	W	84.7	91.7	91.2	82.7	76.1	W	77.5
September 1996 .....	106.7	106.3	89.5	81.2	—	83.4	91.9	91.8	81.9	74.3	—	76.3

See footnotes at end of table.

**Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Idaho</b>												
September 1997 .....	89.5	90.5	83.8	81.6	—	82.3	99.1	99.5	88.0	85.8	—	86.8
August 1997 .....	86.9	87.9	80.4	77.8	—	78.7	96.9	96.8	85.8	82.0	—	83.6
September 1996 .....	92.1	91.5	83.7	81.0	—	82.0	99.0	97.5	88.7	85.0	—	86.7
<b>Montana</b>												
September 1997 .....	89.5	89.7	79.8	77.5	—	77.7	95.8	95.9	85.1	82.2	—	82.6
August 1997 .....	89.0	88.9	77.5	75.9	—	76.1	93.2	93.5	83.8	80.7	—	81.1
September 1996 .....	94.6	95.5	88.9	81.2	—	82.6	101.8	101.7	90.7	87.7	—	88.0
<b>Utah</b>												
September 1997 .....	88.2	87.4	80.5	78.3	—	79.1	96.3	95.3	85.3	83.8	—	84.6
August 1997 .....	87.0	86.1	77.4	76.2	—	76.6	95.1	93.9	83.6	81.6	—	82.7
September 1996 .....	88.0	89.1	79.8	79.2	—	79.4	95.9	94.7	85.0	84.8	—	84.9
<b>Wyoming</b>												
September 1997 .....	92.0	90.6	81.5	75.8	—	76.8	100.6	98.5	86.1	82.1	—	83.9
August 1997 .....	92.0	91.0	79.9	75.6	—	76.4	100.1	98.1	87.4	80.6	—	84.0
September 1996 .....	93.5	93.2	84.8	78.0	—	79.7	100.7	100.7	86.0	85.4	—	85.9
<b>PAD District V</b>												
September 1997 .....	95.7	94.2	88.9	81.7	NA	83.7	104.2	103.6	94.9	89.0	W	93.5
August 1997 .....	88.8	88.1	82.0	75.9	71.9	78.2	97.3	96.9	87.9	82.6	W	86.6
September 1996 .....	91.2	91.0	78.9	75.2	69.1	76.3	97.0	97.0	82.5	81.0	W	82.1
<b>Alaska</b>												
September 1997 .....	116.2	115.1	97.6	83.5	—	90.3	121.0	120.3	103.0	94.8	—	100.7
August 1997 .....	116.9	116.0	95.3	83.2	—	88.9	121.0	117.4	101.4	89.2	—	97.7
September 1996 .....	122.1	120.3	103.9	83.7	W	93.6	114.1	115.3	111.0	93.5	—	107.6
<b>Arizona</b>												
September 1997 .....	95.2	94.4	84.8	80.2	76.5	82.9	104.4	104.1	90.6	87.1	—	89.9
August 1997 .....	89.8	88.9	76.9	73.4	70.1	75.3	98.7	98.4	82.7	79.7	—	82.1
September 1996 .....	97.4	96.3	82.8	75.8	70.8	79.4	105.1	104.8	88.1	82.9	—	87.1
<b>California</b>												
September 1997 .....	94.6	92.4	90.1	81.9	NA	83.5	103.2	102.4	95.7	88.3	W	94.2
August 1997 .....	NA	85.7	82.9	75.4	71.9	78.2	95.9	95.5	88.7	81.9	W	87.3
September 1996 .....	84.9	85.4	76.1	73.1	68.9	74.1	91.9	92.2	80.2	78.6	W	79.9
<b>Hawaii</b>												
September 1997 .....	110.7	106.0	103.2	86.3	W	90.8	118.6	114.8	107.7	W	—	107.4
August 1997 .....	109.0	102.4	100.5	84.3	—	98.3	116.6	111.8	106.1	W	—	105.8
September 1996 .....	114.9	111.3	103.7	86.3	—	100.6	121.6	119.7	110.1	W	—	109.8
<b>Nevada</b>												
September 1997 .....	95.1	94.6	82.4	83.7	NA	83.1	107.3	107.0	87.0	92.6	—	88.9
August 1997 .....	89.2	88.4	70.9	76.0	NA	74.1	99.5	99.0	74.3	82.7	—	77.5
September 1996 .....	99.4	97.9	78.4	76.4	72.5	77.2	103.2	103.0	83.3	82.0	—	82.9
<b>Oregon</b>												
September 1997 .....	99.2	98.2	88.0	82.9	77.6	84.4	109.6	108.4	94.7	92.0	—	93.5
August 1997 .....	92.6	92.6	83.0	79.3	74.1	80.4	103.1	102.5	89.6	86.7	—	88.3
September 1996 .....	93.0	92.6	82.3	77.1	69.1	77.8	103.1	102.2	87.8	84.8	—	86.5
<b>Washington</b>												
September 1997 .....	93.6	93.9	86.4	79.8	76.0	83.1	103.7	103.6	92.6	88.6	—	90.9
August 1997 .....	86.9	87.1	80.8	74.6	72.8	77.8	96.8	96.4	86.9	82.7	—	85.2
September 1996 .....	95.2	94.8	86.2	77.6	68.9	81.3	104.0	103.9	93.9	84.5	—	89.7

See footnotes at end of table.

**Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Idaho</b>												
September 1997 .....	104.2	104.3	93.6	91.5	—	92.3	92.1	92.9	85.6	83.0	—	83.9
August 1997 .....	102.1	102.1	90.9	87.6	—	89.0	89.7	90.3	82.5	79.3	—	80.5
September 1996 .....	103.4	102.3	94.8	90.9	—	92.5	93.7	93.0	85.9	82.5	—	83.8
<b>Montana</b>												
September 1997 .....	100.4	100.4	90.5	89.2	—	89.3	91.8	91.7	81.6	80.1	—	80.3
August 1997 .....	100.0	100.0	88.7	87.8	—	87.9	91.1	90.8	79.6	78.8	—	78.9
September 1996 .....	105.1	106.1	97.8	94.0	—	95.0	96.8	97.4	90.8	83.5	—	84.8
<b>Utah</b>												
September 1997 .....	105.3	104.5	88.9	88.3	—	88.5	92.5	91.5	83.3	80.8	—	81.8
August 1997 .....	104.1	103.5	86.7	85.8	—	86.2	91.6	90.4	80.9	78.8	—	79.7
September 1996 .....	104.7	102.7	88.9	89.2	—	89.1	92.3	92.5	82.6	81.8	—	82.1
<b>Wyoming</b>												
September 1997 .....	104.4	102.0	91.3	85.6	—	86.8	94.8	93.0	83.7	77.6	—	78.8
August 1997 .....	104.4	101.4	90.5	85.2	—	86.4	94.8	93.2	82.7	77.5	—	78.5
September 1996 .....	106.4	104.8	95.8	87.9	—	89.6	96.0	95.4	86.5	79.7	—	81.5
<b>PAD District V</b>												
September 1997 .....	113.9	112.4	103.5	94.5	80.8	99.3	99.3	97.9	92.2	83.8	NA	86.8
August 1997 .....	107.3	106.2	96.7	88.7	75.4	92.1	92.5	91.8	85.4	78.1	72.4	81.2
September 1996 .....	107.8	107.2	91.4	87.7	77.2	89.1	94.1	93.9	81.6	77.2	70.1	78.9
<b>Alaska</b>												
September 1997 .....	131.0	129.6	108.6	97.8	—	104.1	118.1	117.0	98.8	84.6	—	91.6
August 1997 .....	132.5	130.7	107.5	98.2	—	103.7	118.7	117.5	96.8	84.4	—	90.4
September 1996 .....	131.6	129.8	113.0	96.4	W	105.6	122.1	120.5	105.1	85.0	W	95.1
<b>Arizona</b>												
September 1997 .....	114.0	113.3	97.0	90.2	NA	94.5	98.5	97.6	87.2	82.2	76.3	85.3
August 1997 .....	108.4	108.1	90.4	85.9	W	88.1	93.3	92.4	79.7	75.9	69.7	77.9
September 1996 .....	111.8	110.9	96.4	87.2	W	93.2	100.2	99.1	85.3	77.5	71.6	81.8
<b>California</b>												
September 1997 .....	112.7	111.0	104.6	94.6	82.2	100.5	98.6	96.7	93.6	83.8	NA	87.1
August 1997 .....	105.4	104.2	97.5	88.4	76.7	93.2	90.9	90.0	86.6	77.5	72.4	81.5
September 1996 .....	102.6	102.5	88.8	85.1	76.9	86.9	88.4	88.8	79.2	75.0	69.9	76.9
<b>Hawaii</b>												
September 1997 .....	127.8	121.0	114.9	97.8	—	113.3	115.7	110.4	107.2	89.2	W	97.6
August 1997 .....	126.2	117.3	112.0	95.3	—	110.4	113.9	106.9	104.6	87.2	—	102.7
September 1996 .....	131.1	125.8	117.5	105.2	—	116.4	119.3	115.6	108.6	90.1	—	106.1
<b>Nevada</b>												
September 1997 .....	112.2	111.6	94.9	94.6	NA	94.6	98.5	97.9	85.1	85.7	NA	85.4
August 1997 .....	105.8	105.6	83.0	87.7	NA	85.7	92.6	91.9	73.5	78.5	NA	76.4
September 1996 .....	115.6	115.0	90.4	88.2	W	88.8	102.0	100.6	81.0	78.4	74.8	79.5
<b>Oregon</b>												
September 1997 .....	117.6	115.4	102.0	98.3	NA	95.2	101.7	100.6	90.0	84.8	76.4	86.1
August 1997 .....	111.1	110.6	97.0	93.4	W	87.0	95.3	95.2	85.2	81.3	73.1	81.9
September 1996 .....	109.1	108.3	97.5	91.7	79.0	92.4	95.3	94.8	84.5	79.0	70.1	79.9
<b>Washington</b>												
September 1997 .....	113.8	113.4	100.9	93.6	W	97.3	97.2	97.3	89.0	82.3	77.2	85.7
August 1997 .....	107.2	107.0	95.2	87.7	W	91.6	90.8	90.9	83.5	77.1	73.5	80.4
September 1996 .....	114.1	113.5	101.8	90.7	W	94.5	98.2	97.8	89.2	79.8	71.5	83.9

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."



**Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>United States</b>												
September 1997 .....	81.0	80.8	73.4	66.4	60.9	67.1	89.2	88.7	79.3	69.9	—	73.6
August 1997 .....	82.1	81.9	75.5	71.0	63.7	70.9	90.0	89.7	81.1	74.9	—	77.4
September 1996 .....	80.6	80.5	73.7	67.2	60.4	67.8	88.3	87.9	78.8	70.9	—	74.3
<b>PAD District I</b>												
September 1997 .....	79.3	78.8	71.9	64.2	62.6	66.2	88.3	87.7	78.0	68.3	—	72.1
August 1997 .....	78.8	78.7	73.2	69.2	64.5	69.9	88.0	87.8	79.7	73.3	—	75.9
September 1996 .....	77.1	76.8	71.1	64.6	60.9	66.1	85.9	85.5	77.6	69.1	—	72.5
<b>Subdistrict IA</b>												
September 1997 .....	90.7	89.4	80.9	69.9	64.5	72.1	100.3	99.2	87.8	74.3	—	81.6
August 1997 .....	89.1	88.8	82.6	73.7	59.2	75.0	98.6	98.1	89.1	77.9	—	83.8
September 1996 .....	87.4	87.1	79.6	68.9	61.0	70.9	96.7	95.2	85.4	72.8	—	78.7
<b>Connecticut</b>												
September 1997 .....	—	—	—	—	—	—	—	W	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	W	W	—	—	—	—	—	—
<b>Maine</b>												
September 1997 .....	92.3	91.9	80.1	69.7	W	72.0	101.7	100.4	87.5	74.0	—	79.9
August 1997 .....	90.7	90.5	82.1	73.8	W	72.8	100.5	100.2	89.2	78.0	—	82.6
September 1996 .....	87.5	87.4	78.2	68.9	W	67.6	97.1	95.4	85.0	72.7	—	76.1
<b>Massachusetts</b>												
September 1997 .....	—	—	—	—	W	W	—	—	—	—	—	—
August 1997 .....	—	—	—	—	W	W	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>New Hampshire</b>												
September 1997 .....	NA	NA	80.3	69.6	—	77.2	NA	NA	84.9	74.1	—	82.5
August 1997 .....	85.9	85.6	83.1	73.4	—	80.4	94.3	93.7	88.8	76.9	—	87.0
September 1996 .....	85.8	85.4	79.4	68.3	—	77.0	95.1	93.7	82.4	70.0	—	79.4
<b>Rhode Island</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	W	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Vermont</b>												
September 1997 .....	89.6	86.6	81.9	70.7	—	78.1	98.8	97.6	89.1	75.7	—	85.2
August 1997 .....	88.1	87.7	82.9	73.6	—	79.8	97.0	95.9	89.1	77.5	—	85.9
September 1996 .....	88.5	87.9	80.3	69.4	—	77.0	97.2	95.9	86.5	73.6	—	82.9
<b>Subdistrict IB</b>												
September 1997 .....	82.5	82.2	74.5	67.9	62.7	68.3	90.5	90.1	78.8	71.7	—	74.7
August 1997 .....	80.7	80.7	73.9	70.8	65.6	70.4	89.2	89.0	79.1	74.5	—	76.5
September 1996 .....	78.6	78.5	71.1	66.1	60.5	65.9	85.3	85.1	77.4	69.7	—	73.0
<b>Delaware</b>												
September 1997 .....	—	—	W	—	—	W	—	—	W	—	—	W
August 1997 .....	—	W	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>District of Columbia</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Maryland</b>												
September 1997 .....	84.3	83.3	70.7	64.8	—	65.9	92.2	90.8	79.9	69.5	—	71.4
August 1997 .....	83.2	82.6	72.6	68.2	—	69.1	90.9	89.8	82.2	72.8	—	75.8
September 1996 .....	82.4	82.1	75.5	63.3	W	68.4	90.3	88.4	NA	66.4	—	73.0
<b>New Jersey</b>												
September 1997 .....	—	W	—	—	62.9	62.9	—	—	—	—	—	—
August 1997 .....	—	—	—	—	64.6	64.6	—	—	—	—	—	—
September 1996 .....	—	—	—	—	59.7	59.7	—	—	—	—	—	—
<b>New York</b>												
September 1997 .....	85.1	84.7	77.2	69.5	59.6	71.7	93.9	92.5	82.5	74.0	—	78.1
August 1997 .....	82.0	81.9	73.9	71.9	W	72.6	91.2	90.6	78.6	76.5	—	77.5
September 1996 .....	79.6	79.3	69.8	66.6	64.6	67.9	85.9	85.6	75.5	70.8	—	73.1
<b>Pennsylvania</b>												
September 1997 .....	80.9	80.9	72.8	67.0	62.7	68.2	89.3	89.2	77.5	71.3	—	74.0
August 1997 .....	79.7	79.8	74.0	70.2	70.1	71.3	88.4	88.3	79.1	73.9	—	76.2
September 1996 .....	77.5	77.5	71.9	66.0	62.7	67.2	84.8	84.7	77.6	69.8	—	72.9

See footnotes at end of table.

**Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>United States</b>												
September 1997 .....	97.0	96.2	85.8	75.7	66.0	78.1	84.3	83.9	76.3	68.0	61.2	69.2
August 1997 .....	98.1	97.2	87.6	80.5	71.6	82.1	85.4	85.1	78.3	72.7	64.2	73.1
September 1996 .....	96.5	95.7	85.2	76.2	66.1	78.6	83.8	83.6	76.4	68.9	60.8	70.0
<b>PAD District I</b>												
September 1997 .....	96.7	95.6	85.0	74.3	66.1	77.1	83.5	83.0	75.4	66.4	63.2	68.9
August 1997 .....	96.3	95.5	86.2	79.4	77.3	81.6	83.2	83.0	76.8	71.5	66.0	72.7
September 1996 .....	94.8	93.9	84.4	74.7	67.0	77.9	81.5	81.0	75.0	67.0	61.6	69.0
<b>Subdistrict 1A</b>												
September 1997 .....	109.2	106.9	92.5	80.0	—	87.1	94.1	92.7	83.7	71.5	64.5	74.6
August 1997 .....	108.1	107.7	94.8	83.8	—	89.2	92.9	92.6	85.2	75.5	59.2	77.6
September 1996 .....	105.1	104.2	92.1	78.6	W	84.9	90.7	90.3	82.2	70.6	61.5	73.4
<b>Connecticut</b>												
September 1997 .....	—	—	—	—	—	—	—	W	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	W	W
<b>Maine</b>												
September 1997 .....	111.6	111.0	94.2	79.8	—	84.9	95.9	95.4	82.9	71.3	W	74.0
August 1997 .....	110.4	110.0	95.0	83.9	—	87.9	94.5	94.3	84.9	75.5	W	75.4
September 1996 .....	105.7	104.1	90.7	78.5	W	80.9	90.6	90.2	80.9	70.4	W	69.7
<b>Massachusetts</b>												
September 1997 .....	—	W	—	—	—	—	—	W	—	—	W	W
August 1997 .....	—	—	—	—	—	—	—	—	—	—	W	W
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>New Hampshire</b>												
September 1997 .....	106.8	106.8	92.1	80.0	—	88.7	NA	NA	82.6	71.6	—	79.6
August 1997 .....	107.2	107.2	94.6	83.5	—	91.9	90.7	90.4	86.0	75.4	—	83.2
September 1996 .....	103.1	102.4	93.3	77.7	—	90.9	89.1	88.6	82.1	69.6	—	79.5
<b>Rhode Island</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	W	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Vermont</b>												
September 1997 .....	106.5	105.3	91.7	80.7	—	89.3	92.6	89.5	84.7	72.5	—	80.9
August 1997 .....	104.8	104.2	94.5	83.6	—	90.9	91.2	90.8	85.3	75.4	—	82.1
September 1996 .....	105.9	105.4	92.3	78.9	—	88.2	92.0	91.4	82.9	71.4	—	79.4
<b>Subdistrict 1B</b>												
September 1997 .....	98.8	98.0	86.0	77.4	66.1	76.3	85.7	85.3	76.7	69.5	63.4	70.0
August 1997 .....	96.5	96.0	85.3	80.9	78.9	81.9	84.0	83.9	76.3	72.6	67.0	72.5
September 1996 .....	94.2	93.4	82.6	75.6	66.6	76.2	81.7	81.5	73.7	67.9	61.2	68.0
<b>Delaware</b>												
September 1997 .....	—	—	W	—	—	W	—	—	W	—	—	W
August 1997 .....	—	—	—	—	—	—	—	W	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>District of Columbia</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Maryland</b>												
September 1997 .....	99.3	97.8	81.0	75.2	—	76.3	88.1	87.0	73.5	67.2	—	68.4
August 1997 .....	98.0	96.9	83.5	78.8	—	79.7	87.1	86.4	76.3	70.7	—	71.9
September 1996 .....	97.5	95.9	86.5	72.0	—	78.0	86.4	85.4	78.3	65.2	W	70.7
<b>New Jersey</b>												
September 1997 .....	—	—	—	—	65.5	65.5	—	W	—	—	63.4	63.4
August 1997 .....	—	—	—	—	W	W	—	—	—	—	64.8	64.8
September 1996 .....	—	—	—	—	66.5	66.5	—	—	—	—	60.4	60.4
<b>New York</b>												
September 1997 .....	101.4	99.7	87.6	79.6	—	82.5	87.7	87.2	79.2	71.1	59.6	73.5
August 1997 .....	96.4	95.7	84.7	81.9	W	82.6	84.7	84.5	75.8	73.6	W	74.6
September 1996 .....	95.2	94.0	80.5	76.2	—	78.2	82.2	81.8	71.9	68.1	64.6	69.7
<b>Pennsylvania</b>												
September 1997 .....	97.6	97.2	85.3	76.4	67.7	77.7	84.5	84.4	75.4	68.8	63.9	70.3
August 1997 .....	96.4	96.1	85.8	80.4	78.0	81.8	83.4	83.5	76.6	72.2	71.9	73.5
September 1996 .....	93.3	92.8	83.8	75.7	66.9	77.1	81.1	81.0	74.9	68.1	63.5	69.6

See footnotes at end of table.

**Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Subdistrict IC</b>												
September 1997 .....	77.5	77.0	70.0	62.6	59.3	64.7	87.2	86.6	77.3	67.4	—	71.2
August 1997 .....	77.6	77.4	72.1	68.4	60.3	69.3	87.2	87.1	79.4	72.9	—	75.5
September 1996 .....	76.1	75.7	70.6	64.0	64.5	65.9	85.8	85.3	77.3	68.9	—	72.2
<b>Florida</b>												
September 1997 .....	79.1	78.4	73.7	62.9	W	65.7	89.3	88.8	82.1	67.5	—	73.7
August 1997 .....	79.3	78.8	74.7	68.5	—	70.3	89.2	89.2	83.2	72.9	—	77.3
September 1996 .....	79.1	78.4	73.9	64.4	W	67.4	89.3	88.4	81.2	69.2	—	75.0
<b>Georgia</b>												
September 1997 .....	76.0	75.7	68.0	62.1	W	63.9	85.7	84.8	73.2	68.0	—	70.3
August 1997 .....	76.2	76.1	69.4	68.0	W	67.8	85.8	85.8	75.4	73.4	—	74.3
September 1996 .....	73.4	73.3	68.0	63.7	W	65.1	83.6	83.2	73.2	69.2	—	70.9
<b>North Carolina</b>												
September 1997 .....	76.2	75.7	69.1	62.8	W	64.5	86.1	85.4	77.6	67.4	—	70.5
August 1997 .....	76.6	76.3	72.2	68.7	W	69.6	86.2	85.8	80.4	73.2	—	75.6
September 1996 .....	74.6	73.9	69.2	64.1	63.8	65.3	83.4	83.1	75.6	69.0	—	70.7
<b>South Carolina</b>												
September 1997 .....	74.7	74.8	66.7	62.6	W	63.6	84.6	84.5	72.8	67.8	—	69.3
August 1997 .....	74.8	75.4	69.5	68.5	—	68.7	84.6	84.6	75.6	73.3	—	74.1
September 1996 .....	72.1	72.0	70.1	64.0	W	65.4	83.1	82.7	76.1	69.2	—	70.9
<b>Virginia</b>												
September 1997 .....	79.3	79.0	69.7	62.1	W	64.1	88.3	87.7	74.3	65.3	—	68.5
August 1997 .....	79.1	78.9	71.6	68.0	W	68.9	88.0	87.6	76.4	71.1	—	73.0
September 1996 .....	77.9	77.8	69.4	63.1	W	64.7	86.3	86.1	75.0	66.8	—	69.7
<b>West Virginia</b>												
September 1997 .....	80.8	80.6	71.4	66.2	—	69.6	89.4	89.0	77.7	70.5	—	75.3
August 1997 .....	80.8	80.7	77.1	70.2	—	74.7	89.2	89.0	82.9	74.2	—	79.9
September 1996 .....	80.4	80.1	74.0	66.5	—	71.1	89.6	89.1	78.7	71.1	—	76.6
<b>PAD District II</b>												
September 1997 .....	79.7	79.7	70.5	65.7	62.0	66.5	86.7	86.5	76.7	69.3	—	72.3
August 1997 .....	82.9	82.8	75.7	71.9	65.0	72.2	89.9	89.6	81.4	76.2	—	78.3
September 1996 .....	79.3	79.4	72.0	67.7	63.1	68.4	86.9	86.8	77.8	71.7	—	74.7
<b>Illinois</b>												
September 1997 .....	80.5	80.4	73.3	65.1	62.5	65.3	84.1	84.6	77.1	69.6	—	71.8
August 1997 .....	82.5	82.6	76.6	71.1	63.0	69.1	87.3	87.4	81.0	76.1	—	77.7
September 1996 .....	79.4	79.7	73.4	66.8	61.5	67.6	88.3	88.3	82.0	73.5	—	78.2
<b>Indiana</b>												
September 1997 .....	79.5	78.8	69.3	63.5	62.1	65.3	86.8	86.1	75.5	67.3	—	71.2
August 1997 .....	82.5	81.9	73.9	69.7	64.6	70.5	89.6	88.7	79.2	74.2	—	76.7
September 1996 .....	77.5	77.8	70.1	65.5	63.5	67.0	85.5	85.8	76.5	71.1	—	74.0
<b>Iowa</b>												
September 1997 .....	82.3	82.5	71.9	67.4	—	67.9	85.7	85.8	75.6	71.4	—	72.4
August 1997 .....	82.7	82.9	75.7	73.2	—	73.5	88.0	87.8	80.3	80.6	—	80.5
September 1996 .....	82.1	82.4	74.7	69.9	W	70.4	88.4	86.8	80.0	76.8	—	78.5
<b>Kansas</b>												
September 1997 .....	79.6	79.4	71.2	67.2	W	66.8	86.7	86.7	77.4	71.2	—	74.8
August 1997 .....	81.8	81.7	76.2	72.8	68.6	72.6	89.2	89.1	80.1	77.3	—	78.9
September 1996 .....	80.1	80.1	71.7	68.8	63.7	68.2	87.2	87.2	77.9	74.2	—	76.2
<b>Kentucky</b>												
September 1997 .....	79.3	78.6	68.3	63.7	W	65.0	88.1	87.3	74.6	68.3	—	70.7
August 1997 .....	80.7	80.1	73.8	70.1	W	70.7	89.5	88.8	80.6	74.9	—	77.3
September 1996 .....	78.6	77.8	71.0	66.1	—	67.7	88.9	87.6	77.5	71.1	—	73.9
<b>Michigan</b>												
September 1997 .....	77.4	77.6	69.3	65.7	—	67.1	86.6	86.6	76.3	68.1	—	74.1
August 1997 .....	83.3	83.3	75.4	73.0	—	73.9	91.4	91.4	81.6	76.1	—	80.1
September 1996 .....	78.3	78.3	71.3	67.7	W	69.3	85.7	85.8	77.0	72.4	—	75.7
<b>Minnesota</b>												
September 1997 .....	88.7	88.5	73.8	68.8	W	69.7	90.8	90.4	84.0	74.1	—	76.8
August 1997 .....	89.5	87.8	80.9	74.4	W	75.4	91.2	90.7	NA	79.5	—	82.8
September 1996 .....	87.6	86.9	73.5	71.0	66.5	70.9	93.2	91.6	NA	81.1	—	82.5
<b>Missouri</b>												
September 1997 .....	80.7	81.1	72.8	66.4	—	68.7	89.8	89.7	81.0	71.1	—	77.6
August 1997 .....	82.3	82.7	76.4	72.2	W	73.5	91.1	91.5	84.1	77.1	—	81.3
September 1996 .....	78.2	78.2	72.5	67.8	W	69.0	86.6	86.4	77.7	73.6	—	76.5

See footnotes at end of table.

**Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Subdistrict IC</b>												
September 1997 .....	95.9	94.7	84.3	73.3	W	77.1	82.3	81.8	74.4	65.2	60.5	68.0
August 1997 .....	95.9	94.9	86.1	78.9	W	81.3	82.4	82.2	76.5	70.9	62.7	72.5
September 1996 .....	94.7	93.8	84.6	74.4	69.1	78.2	81.1	80.5	75.1	66.6	64.8	69.3
<b>Florida</b>												
September 1997 .....	96.9	95.2	89.1	73.7	W	80.5	84.0	83.3	79.9	65.6	W	70.2
August 1997 .....	97.1	95.8	90.2	79.0	—	84.2	84.2	83.9	81.0	71.1	—	74.6
September 1996 .....	97.3	96.1	88.7	74.8	W	81.8	84.1	83.3	79.9	67.0	W	72.0
<b>Georgia</b>												
September 1997 .....	94.6	93.9	79.6	73.2	—	75.4	80.7	80.4	71.2	64.7	W	66.8
August 1997 .....	94.6	93.7	81.7	79.0	W	79.8	80.8	80.9	73.0	70.6	59.5	70.8
September 1996 .....	93.1	92.1	79.6	73.9	—	76.0	78.5	78.3	71.3	66.2	W	68.0
<b>North Carolina</b>												
September 1997 .....	95.3	94.3	82.6	73.5	—	76.0	81.6	80.9	73.1	65.5	W	67.6
August 1997 .....	95.6	94.8	84.9	79.1	—	80.7	81.9	81.5	76.0	71.3	W	72.6
September 1996 .....	92.8	91.8	81.5	74.9	—	76.4	79.5	78.8	72.5	66.9	63.8	68.1
<b>South Carolina</b>												
September 1997 .....	93.8	93.3	79.0	73.6	—	74.8	79.5	79.5	69.7	65.2	W	66.3
August 1997 .....	93.0	92.6	81.9	79.2	—	79.9	79.5	79.8	72.5	71.0	—	71.4
September 1996 .....	92.4	91.6	82.9	74.8	—	76.7	77.2	76.9	73.2	66.5	W	68.1
<b>Virginia</b>												
September 1997 .....	97.2	96.7	80.9	71.5	W	74.0	84.0	83.6	72.7	64.2	62.3	66.5
August 1997 .....	97.0	96.3	83.5	77.4	W	78.5	83.8	83.6	74.7	70.1	69.1	71.3
September 1996 .....	94.9	94.3	82.3	73.0	W	75.6	82.3	82.2	73.2	65.5	W	67.5
<b>West Virginia</b>												
September 1997 .....	98.4	97.7	84.7	75.9	—	81.2	84.4	84.1	74.0	68.3	—	72.0
August 1997 .....	98.6	98.0	87.5	80.1	—	84.8	84.5	84.3	79.5	72.4	—	77.1
September 1996 .....	98.3	97.2	85.5	76.5	—	82.5	84.4	84.0	76.8	68.5	—	73.8
<b>PAD District II</b>												
September 1997 .....	93.9	93.3	82.5	74.0	67.9	76.7	82.1	81.9	72.9	66.9	62.1	68.1
August 1997 .....	97.2	96.6	87.2	80.5	71.5	82.5	85.3	85.1	77.9	73.2	65.2	73.9
September 1996 .....	93.8	93.4	83.1	76.0	67.0	78.1	81.9	81.8	74.3	69.0	63.2	70.1
<b>Illinois</b>												
September 1997 .....	93.1	93.1	82.1	74.5	—	75.7	82.2	82.2	74.8	66.4	62.5	66.5
August 1997 .....	95.7	95.8	86.1	81.3	W	80.6	84.4	84.6	78.4	72.5	63.1	70.6
September 1996 .....	95.0	95.1	85.5	76.0	—	78.3	82.0	82.3	76.3	68.3	61.5	69.6
<b>Indiana</b>												
September 1997 .....	92.3	91.3	80.9	72.4	W	75.6	82.3	81.6	71.8	65.0	62.2	67.2
August 1997 .....	96.2	95.0	85.3	79.7	—	82.1	85.3	84.6	76.1	71.4	64.6	72.5
September 1996 .....	92.3	92.3	81.4	75.3	W	78.0	80.7	80.9	72.7	67.4	63.7	69.2
<b>Iowa</b>												
September 1997 .....	91.3	91.3	80.4	75.2	—	76.0	83.3	83.4	73.6	68.4	—	69.1
August 1997 .....	91.9	91.9	84.6	80.9	—	81.5	83.9	84.1	77.7	74.7	—	75.1
September 1996 .....	92.5	92.3	83.8	78.3	—	79.2	83.0	83.3	76.2	70.5	W	71.2
<b>Kansas</b>												
September 1997 .....	93.0	92.1	80.5	74.6	W	75.5	81.1	80.7	72.6	67.8	W	67.6
August 1997 .....	95.7	94.9	84.5	80.4	W	80.9	83.3	83.0	77.3	73.4	68.8	73.3
September 1996 .....	93.7	93.4	80.3	76.4	W	76.7	81.6	81.5	73.0	69.5	63.8	69.1
<b>Kentucky</b>												
September 1997 .....	96.6	94.9	80.4	73.5	—	75.5	83.0	82.2	71.0	65.8	W	67.2
August 1997 .....	98.1	96.5	85.4	79.9	—	81.6	84.4	83.7	76.7	72.2	W	73.1
September 1996 .....	93.9	92.7	82.1	75.1	—	77.2	82.3	81.3	73.6	68.2	—	69.9
<b>Michigan</b>												
September 1997 .....	92.5	91.8	81.7	74.5	—	77.8	79.7	79.8	71.7	66.7	—	68.8
August 1997 .....	98.9	98.1	87.5	82.0	W	84.5	85.6	85.5	77.7	74.1	W	75.6
September 1996 .....	92.7	92.2	83.0	76.9	—	80.0	80.6	80.6	73.8	69.1	W	71.3
<b>Minnesota</b>												
September 1997 .....	97.9	97.8	85.7	76.4	W	79.3	89.3	89.1	75.2	69.5	W	70.6
August 1997 .....	98.4	97.9	91.5	82.5	W	85.1	90.1	88.5	82.4	75.1	W	76.4
September 1996 .....	98.1	97.6	82.5	80.2	W	80.2	88.6	87.9	75.1	71.8	67.0	71.9
<b>Missouri</b>												
September 1997 .....	97.6	97.5	86.7	74.3	—	80.8	83.0	83.3	75.9	67.4	—	70.7
August 1997 .....	99.6	99.5	88.6	80.4	—	83.9	84.7	85.0	78.7	73.2	W	75.0
September 1996 .....	95.7	95.3	83.1	75.9	—	78.4	80.9	80.8	74.6	68.9	W	70.6

See footnotes at end of table.

**Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Nebraska</b>												
September 1997 .....	81.5	81.8	70.6	67.5	—	67.9	86.0	85.3	75.1	71.7	—	72.4
August 1997 .....	83.1	83.4	74.8	73.0	—	73.2	87.4	86.7	79.2	77.7	—	78.0
September 1996 .....	82.1	82.2	75.3	69.6	W	70.7	89.0	88.9	79.0	78.6	—	78.7
<b>North Dakota</b>												
September 1997 .....	89.1	89.4	76.1	69.9	—	71.1	97.2	96.8	80.8	75.0	—	77.5
August 1997 .....	90.9	90.8	78.9	74.4	—	75.2	98.5	97.2	84.1	80.3	—	82.1
September 1996 .....	90.9	90.7	80.8	72.3	—	73.9	96.4	94.7	78.8	81.0	—	79.8
<b>Ohio</b>												
September 1997 .....	78.9	78.6	69.2	63.8	60.3	65.8	86.6	86.2	75.6	66.9	—	71.8
August 1997 .....	84.8	84.5	76.2	70.8	63.8	72.8	92.8	92.3	82.5	74.0	—	79.0
September 1996 .....	77.9	77.7	71.2	66.8	W	68.6	86.0	85.6	76.7	71.1	—	74.4
<b>Oklahoma</b>												
September 1997 .....	77.3	77.2	68.7	66.0	61.8	64.4	83.7	83.0	73.0	68.8	—	71.2
August 1997 .....	79.5	79.3	73.5	71.7	65.6	69.4	86.0	85.3	78.6	74.4	—	77.0
September 1996 .....	76.2	75.9	71.6	67.7	62.6	65.6	82.3	81.9	76.7	71.1	—	74.1
<b>South Dakota</b>												
September 1997 .....	87.4	87.6	76.9	69.5	—	71.3	90.0	90.5	NA	NA	—	NA
August 1997 .....	88.0	87.6	79.3	74.5	—	75.7	90.9	91.3	83.6	NA	—	79.0
September 1996 .....	88.1	88.3	79.7	72.0	—	74.1	95.0	94.7	NA	W	—	NA
<b>Tennessee</b>												
September 1997 .....	76.0	75.9	71.6	63.1	—	64.5	86.7	86.6	79.7	68.2	—	70.7
August 1997 .....	76.8	76.5	73.0	69.1	—	69.8	86.6	86.4	80.7	74.0	—	75.5
September 1996 .....	77.1	76.8	71.9	64.1	W	65.4	87.5	87.4	77.7	69.2	—	71.2
<b>Wisconsin</b>												
September 1997 .....	81.5	81.0	70.1	65.7	W	66.1	88.9	89.1	77.3	70.3	—	71.6
August 1997 .....	84.6	84.2	76.5	72.7	W	73.1	90.2	90.3	82.4	77.5	—	78.4
September 1996 .....	81.8	81.9	71.9	68.1	—	69.1	88.5	89.7	76.7	73.7	—	74.6
<b>PAD District III</b>												
September 1997 .....	78.5	77.9	70.4	64.1	59.0	62.8	87.8	87.0	76.1	67.8	—	70.2
August 1997 .....	79.3	78.8	73.1	68.6	62.3	66.6	88.3	87.7	78.2	72.6	—	74.2
September 1996 .....	78.4	78.0	72.3	64.7	58.3	63.6	86.9	86.0	74.8	68.7	—	70.8
<b>Alabama</b>												
September 1997 .....	79.7	79.3	70.1	62.8	—	64.9	89.3	88.7	76.6	67.8	—	71.0
August 1997 .....	79.2	78.8	71.8	68.6	—	69.5	88.9	88.4	78.1	73.5	—	75.1
September 1996 .....	77.4	77.2	74.4	64.0	W	66.2	86.3	85.8	80.8	69.0	—	72.5
<b>Arkansas</b>												
September 1997 .....	77.2	76.2	67.5	64.5	W	64.5	86.1	85.2	71.0	67.9	—	68.7
August 1997 .....	78.2	77.6	71.1	70.1	W	70.0	86.8	86.0	75.0	73.5	—	73.9
September 1996 .....	75.8	74.8	70.7	65.0	W	65.3	84.5	83.1	75.7	68.9	—	70.5
<b>Louisiana</b>												
September 1997 .....	77.0	76.5	73.7	62.6	59.6	64.0	87.2	86.3	79.8	67.2	—	71.1
August 1997 .....	76.9	76.6	75.5	67.7	62.4	68.3	87.1	86.5	81.2	72.2	—	74.9
September 1996 .....	75.7	75.4	69.4	62.9	58.8	62.8	85.9	85.2	74.9	67.4	—	69.8
<b>Mississippi</b>												
September 1997 .....	80.0	79.2	72.0	62.1	60.3	63.6	89.5	89.0	77.7	66.6	—	70.3
August 1997 .....	80.6	80.0	75.4	67.6	64.0	68.1	89.5	89.1	80.7	72.3	—	74.9
September 1996 .....	80.3	80.0	70.8	63.4	58.7	63.6	90.3	89.8	76.6	68.4	—	70.3
<b>New Mexico</b>												
September 1997 .....	85.8	85.4	NA	72.4	—	72.7	93.9	93.6	NA	76.6	—	76.4
August 1997 .....	85.6	85.2	74.7	71.5	—	72.0	93.7	93.5	76.3	75.7	—	75.9
September 1996 .....	87.9	87.7	78.3	75.1	—	75.7	96.3	96.3	82.9	80.5	—	81.0
<b>Texas</b>												
September 1997 .....	77.5	77.0	68.9	64.0	58.9	61.3	86.3	85.5	73.9	67.3	—	68.7
August 1997 .....	78.8	78.4	72.5	68.3	62.3	65.0	87.6	86.9	76.9	71.9	—	72.9
September 1996 .....	78.3	77.9	72.5	64.2	58.2	62.3	86.2	85.1	NA	67.8	—	70.0
<b>PAD District IV</b>												
September 1997 .....	88.1	88.0	80.7	76.1	W	77.2	98.0	97.4	85.7	80.9	—	83.0
August 1997 .....	87.9	87.7	78.8	75.6	W	76.4	97.5	96.8	84.8	80.0	—	82.2
September 1996 .....	89.4	89.8	82.0	77.3	—	78.6	97.7	96.9	86.1	82.3	—	83.9
<b>Colorado</b>												
September 1997 .....	87.1	86.8	78.6	71.2	W	72.7	98.8	98.2	85.3	75.3	—	79.5
August 1997 .....	87.6	87.3	79.3	73.8	W	74.9	99.2	98.7	86.1	77.2	—	81.1
September 1996 .....	87.6	87.6	79.1	72.1	—	73.9	97.8	97.4	85.6	76.5	—	81.0

See footnotes at end of table.

**Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Nebraska</b>												
September 1997 .....	92.9	92.9	81.0	76.0	—	77.0	82.8	82.9	72.4	68.6	—	69.2
August 1997 .....	96.9	96.8	84.5	81.3	—	81.9	84.6	84.5	76.5	74.2	—	74.5
September 1996 .....	92.0	97.5	83.6	77.3	—	79.0	83.1	83.6	76.1	70.3	W	71.4
<b>North Dakota</b>												
September 1997 .....	94.5	94.3	84.7	78.5	—	80.3	90.0	90.3	77.0	70.4	—	71.8
August 1997 .....	97.4	97.0	88.7	83.2	—	84.8	91.9	91.7	80.1	75.0	—	76.0
September 1996 .....	100.1	99.9	89.7	81.6	—	83.9	91.7	91.4	81.2	72.9	—	74.6
<b>Ohio</b>												
September 1997 .....	93.9	93.3	81.7	73.3	W	77.1	81.9	81.6	71.9	65.2	61.8	67.9
August 1997 .....	99.8	99.0	88.8	80.5	W	84.8	87.8	87.3	78.9	72.3	64.2	75.0
September 1996 .....	93.8	93.2	83.6	76.1	—	79.7	81.0	80.7	73.8	68.4	W	70.8
<b>Oklahoma</b>												
September 1997 .....	90.1	89.8	75.2	73.5	W	73.1	79.5	79.3	69.7	67.0	61.9	65.2
August 1997 .....	92.0	91.7	80.8	78.9	W	79.1	81.7	81.5	74.9	72.8	65.8	70.4
September 1996 .....	88.9	87.8	80.6	75.2	66.1	74.4	78.3	78.0	73.1	68.8	62.8	66.6
<b>South Dakota</b>												
September 1997 .....	98.3	98.4	85.1	78.7	—	80.3	88.7	88.8	77.6	70.2	—	72.0
August 1997 .....	100.4	100.6	86.9	83.2	—	84.2	89.3	89.1	80.3	75.4	—	76.6
September 1996 .....	100.2	99.7	88.5	82.5	—	84.2	89.5	89.6	80.5	73.0	—	75.0
<b>Tennessee</b>												
September 1997 .....	95.5	95.0	85.1	73.4	—	75.3	81.3	81.1	75.5	65.8	—	67.4
August 1997 .....	95.7	95.2	87.9	79.5	—	80.9	81.8	81.5	77.2	71.8	—	72.7
September 1996 .....	95.5	95.0	84.4	74.2	—	76.0	82.5	82.1	75.4	66.9	W	68.3
<b>Wisconsin</b>												
September 1997 .....	93.0	92.5	81.4	74.2	—	75.1	83.1	82.6	71.8	66.7	W	67.3
August 1997 .....	95.2	94.4	86.4	81.7	—	82.2	85.9	85.6	78.0	73.9	W	74.3
September 1996 .....	93.3	92.7	82.7	77.1	—	78.8	83.5	83.5	73.5	69.3	—	70.5
<b>PAD District III</b>												
September 1997 .....	95.4	94.3	82.1	73.6	63.9	73.9	82.5	81.6	73.2	65.9	59.2	64.7
August 1997 .....	96.7	95.6	85.0	78.4	68.6	77.9	83.1	82.5	75.9	70.6	62.8	68.6
September 1996 .....	95.5	94.2	81.3	74.2	63.5	74.4	82.3	81.7	74.5	66.6	58.7	65.7
<b>Alabama</b>												
September 1997 .....	97.7	96.8	83.5	73.6	—	76.4	84.5	84.0	73.7	65.6	—	68.0
August 1997 .....	97.9	96.9	85.0	79.5	—	81.1	84.0	83.6	75.5	71.4	—	72.6
September 1996 .....	95.5	94.5	87.7	74.5	—	77.5	82.1	81.9	78.2	66.7	W	69.3
<b>Arkansas</b>												
September 1997 .....	NA	89.0	77.5	74.1	W	73.5	80.5	79.3	69.6	66.3	W	66.3
August 1997 .....	95.0	92.2	81.1	79.4	W	78.9	81.3	80.4	73.3	71.8	W	71.8
September 1996 .....	92.1	89.5	81.2	74.7	—	76.1	79.2	77.8	73.2	67.0	W	67.4
<b>Louisiana</b>												
September 1997 .....	95.3	93.9	85.4	72.6	W	74.1	82.0	81.3	77.2	65.1	60.4	66.7
August 1997 .....	95.4	94.4	87.8	77.5	W	77.8	81.9	81.5	79.1	70.2	64.3	71.1
September 1996 .....	93.7	92.7	81.6	72.6	63.8	74.2	80.7	80.3	73.6	65.4	59.4	65.8
<b>Mississippi</b>												
September 1997 .....	98.8	96.7	84.1	72.4	—	75.0	84.7	83.7	74.6	64.4	60.3	65.9
August 1997 .....	98.3	96.3	87.2	78.0	65.3	77.2	84.9	84.3	78.0	70.0	64.2	70.3
September 1996 .....	98.7	97.9	83.6	74.1	W	75.1	84.8	84.4	74.1	65.9	59.3	66.2
<b>New Mexico</b>												
September 1997 .....	100.0	99.5	NA	81.7	—	82.8	88.2	87.8	NA	73.9	—	74.3
August 1997 .....	99.8	99.4	88.5	80.7	—	82.9	87.9	87.6	77.9	73.0	—	74.0
September 1996 .....	102.8	102.4	88.6	84.4	—	85.0	90.4	90.1	79.6	76.5	—	77.1
<b>Texas</b>												
September 1997 .....	94.2	93.5	78.7	73.2	63.8	71.3	81.0	80.3	71.0	65.5	59.1	62.5
August 1997 .....	96.2	95.6	83.0	77.6	69.1	75.9	82.3	81.7	74.6	69.8	62.6	66.3
September 1996 .....	95.3	93.9	78.7	73.4	63.3	72.2	81.8	81.2	73.7	65.7	58.5	63.9
<b>PAD District IV</b>												
September 1997 .....	104.8	103.9	90.1	86.6	W	87.5	92.0	91.6	83.2	78.3	W	79.6
August 1997 .....	104.4	103.3	88.8	85.8	W	86.6	91.8	91.2	81.7	77.8	W	78.9
September 1996 .....	105.7	104.7	91.7	87.2	—	88.6	92.9	92.9	84.2	79.3	—	80.7
<b>Colorado</b>												
September 1997 .....	105.5	104.5	89.6	80.8	W	83.1	91.5	91.1	81.8	73.0	W	75.1
August 1997 .....	105.8	104.4	91.0	82.9	W	84.7	92.0	91.5	82.7	75.7	W	77.4
September 1996 .....	106.7	106.3	89.4	80.8	—	83.3	91.9	91.8	81.9	73.8	—	76.2

See footnotes at end of table.

**Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Idaho</b>												
September 1997 .....	89.5	90.5	83.8	81.6	—	82.3	99.1	99.5	88.0	85.8	—	86.8
August 1997 .....	86.9	87.9	80.4	77.8	—	78.7	96.9	96.8	85.8	82.0	—	83.6
September 1996 .....	92.1	91.5	83.7	81.0	—	82.0	99.0	97.5	88.7	85.0	—	86.7
<b>Montana</b>												
September 1997 .....	89.5	89.7	79.8	77.5	—	77.7	95.8	95.9	85.1	82.2	—	82.6
August 1997 .....	89.0	88.9	77.5	75.9	—	76.1	93.2	93.5	83.8	80.7	—	81.1
September 1996 .....	94.6	95.5	88.9	81.2	—	82.6	101.8	101.7	90.7	87.7	—	88.0
<b>Utah</b>												
September 1997 .....	88.2	87.4	80.5	78.3	—	79.1	96.3	95.3	85.3	83.8	—	84.6
August 1997 .....	87.0	86.1	77.4	76.2	—	76.6	95.1	93.9	83.6	81.6	—	82.7
September 1996 .....	88.0	89.1	79.8	79.2	—	79.4	95.9	94.7	85.0	84.8	—	84.9
<b>Wyoming</b>												
September 1997 .....	92.0	90.6	81.5	75.8	—	76.8	100.6	98.5	86.1	82.1	—	83.9
August 1997 .....	92.0	91.0	79.9	75.6	—	76.4	100.1	98.1	87.4	80.6	—	84.0
September 1996 .....	93.5	93.2	84.8	78.0	—	79.7	100.7	100.7	86.0	85.4	—	85.9
<b>PAD District V</b>												
September 1997 .....	99.2	98.2	87.3	81.3	76.3	83.4	107.7	107.1	93.1	89.7	—	91.9
August 1997 .....	93.8	93.0	81.2	76.3	71.1	77.9	101.4	100.7	86.3	83.1	—	85.0
September 1996 .....	97.0	96.2	84.7	76.9	68.7	79.2	104.9	104.7	91.1	83.7	—	88.4
<b>Alaska</b>												
September 1997 .....	116.4	115.3	97.6	83.5	—	90.3	121.1	120.4	103.6	94.8	—	100.6
August 1997 .....	116.9	116.0	95.3	83.2	—	88.9	121.0	117.4	101.4	89.2	—	97.7
September 1996 .....	122.1	120.3	102.9	83.7	W	91.7	113.7	115.0	104.4	93.5	—	99.7
<b>Arizona</b>												
September 1997 .....	97.4	95.6	84.4	80.1	77.3	82.2	105.1	104.4	90.5	87.2	—	89.6
August 1997 .....	93.2	91.4	77.2	73.2	70.1	75.0	100.8	100.2	83.4	79.7	—	82.4
September 1996 .....	97.5	96.3	82.5	75.7	70.8	79.2	105.1	104.8	87.8	82.9	—	86.8
<b>California</b>												
September 1997 .....	—	—	—	83.6	78.2	78.9	—	—	—	90.1	—	90.1
August 1997 .....	—	—	—	76.1	70.2	70.7	—	—	—	82.0	—	82.0
September 1996 .....	—	—	—	78.0	66.7	67.9	—	—	—	84.0	—	84.0
<b>Hawaii</b>												
September 1997 .....	110.7	106.0	103.2	86.3	W	90.8	118.6	114.8	107.7	W	—	107.4
August 1997 .....	109.0	102.4	100.5	84.3	—	98.3	116.6	111.8	106.1	W	—	105.8
September 1996 .....	114.9	111.3	103.7	86.3	—	100.6	121.6	119.7	110.1	W	—	109.8
<b>Nevada</b>												
September 1997 .....	95.4	94.9	81.2	83.4	NA	82.6	107.9	107.6	85.2	92.0	—	87.9
August 1997 .....	89.2	88.4	70.9	76.0	NA	74.1	99.5	99.0	74.3	82.7	—	77.5
September 1996 .....	100.1	98.6	77.5	75.0	72.5	76.0	103.8	103.5	82.1	81.3	—	81.8
<b>Oregon</b>												
September 1997 .....	99.7	98.6	87.2	82.7	77.6	83.8	110.0	108.8	94.3	91.9	—	93.2
August 1997 .....	93.4	93.2	83.2	79.3	74.1	80.2	103.7	102.9	89.9	86.6	—	88.3
September 1996 .....	92.2	92.0	81.3	77.1	69.1	77.3	102.5	101.7	86.9	84.8	—	85.9
<b>Washington</b>												
September 1997 .....	96.5	96.5	86.3	79.0	76.0	82.6	105.4	105.1	92.5	88.5	—	90.9
August 1997 .....	89.8	89.6	81.1	74.2	72.8	77.6	98.4	97.7	87.2	82.4	—	85.1
September 1996 .....	94.1	93.8	85.0	76.8	68.9	80.0	103.0	102.9	92.5	83.6	—	88.5

See footnotes at end of table.

**Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Idaho</b>												
September 1997 .....	104.2	104.3	93.6	91.5	—	92.3	92.1	92.9	85.6	83.0	—	83.9
August 1997 .....	102.1	102.1	90.9	87.6	—	89.0	89.7	90.3	82.5	79.3	—	80.5
September 1996 .....	103.4	102.3	94.8	90.9	—	92.5	93.7	93.0	85.9	82.5	—	83.8
<b>Montana</b>												
September 1997 .....	100.4	100.4	90.5	89.2	—	89.3	91.8	91.7	81.6	80.1	—	80.3
August 1997 .....	100.0	100.0	88.7	87.8	—	87.9	91.1	90.8	79.6	78.8	—	78.9
September 1996 .....	105.1	106.1	97.8	94.0	—	95.0	96.8	97.4	90.8	83.4	—	84.8
<b>Utah</b>												
September 1997 .....	105.3	104.5	88.9	88.3	—	88.5	92.5	91.5	83.2	80.8	—	81.8
August 1997 .....	104.1	103.5	86.7	85.8	—	86.2	91.6	90.4	80.9	78.8	—	79.7
September 1996 .....	104.7	102.7	88.9	89.2	—	89.1	92.3	92.5	82.6	81.8	—	82.1
<b>Wyoming</b>												
September 1997 .....	104.4	102.0	91.3	85.6	—	86.8	94.8	93.0	83.7	77.6	—	78.8
August 1997 .....	104.4	101.4	90.5	85.2	—	86.4	94.8	93.2	82.7	77.5	—	78.5
September 1996 .....	106.4	104.8	95.8	87.9	—	89.6	96.0	95.4	86.5	79.7	—	81.5
<b>PAD District V</b>												
September 1997 .....	117.3	115.7	101.6	94.3	76.4	96.7	102.2	101.2	90.0	83.4	76.3	85.8
August 1997 .....	111.8	110.8	95.4	88.8	72.3	90.0	97.0	96.1	83.9	78.5	71.3	80.3
September 1996 .....	113.9	112.9	100.5	90.2	77.9	94.4	99.8	99.0	87.7	78.9	69.6	81.8
<b>Alaska</b>												
September 1997 .....	131.1	130.5	108.9	97.3	—	104.1	118.3	117.2	98.7	84.4	—	91.4
August 1997 .....	132.5	131.8	107.5	97.7	—	103.8	118.7	117.6	96.8	84.2	—	90.3
September 1996 .....	131.6	130.6	108.2	94.5	W	100.5	122.0	120.4	103.3	84.7	W	92.4
<b>Arizona</b>												
September 1997 .....	114.9	113.4	95.0	89.8	NA	92.2	100.2	98.3	86.5	82.2	76.9	84.2
August 1997 .....	111.0	110.4	90.7	85.6	NA	87.6	96.3	94.7	79.8	75.6	69.9	77.3
September 1996 .....	112.0	111.1	96.3	87.1	W	93.0	100.2	99.1	85.0	77.4	71.6	81.6
<b>California</b>												
September 1997 .....	—	—	—	95.4	78.7	82.9	—	—	—	85.9	78.2	79.4
August 1997 .....	—	—	—	87.8	71.6	74.7	—	—	—	78.4	70.3	71.2
September 1996 .....	—	—	—	91.4	W	80.9	—	—	—	80.0	66.7	68.4
<b>Hawaii</b>												
September 1997 .....	127.8	121.0	114.9	97.8	—	113.3	115.7	110.4	107.2	89.2	W	97.6
August 1997 .....	126.2	117.3	112.0	95.3	—	110.4	113.9	106.9	104.6	87.2	—	102.7
September 1996 .....	131.1	125.8	117.5	105.2	—	116.4	119.3	115.6	108.6	90.1	—	106.1
<b>Nevada</b>												
September 1997 .....	112.4	111.7	93.3	94.1	NA	93.7	98.8	98.2	83.7	85.3	NA	84.7
August 1997 .....	105.8	105.6	83.0	87.7	NA	85.7	92.6	91.9	73.5	78.5	NA	76.4
September 1996 .....	116.3	115.6	89.1	87.6	W	87.7	102.7	101.2	80.0	77.0	74.8	78.3
<b>Oregon</b>												
September 1997 .....	117.8	115.5	101.5	98.2	NA	94.8	102.3	101.0	89.4	84.7	76.4	85.6
August 1997 .....	111.5	110.9	96.9	93.4	W	86.7	96.1	95.8	85.5	81.2	73.1	81.7
September 1996 .....	108.6	107.8	96.4	91.7	79.0	91.8	94.6	94.2	83.5	79.0	70.1	79.4
<b>Washington</b>												
September 1997 .....	115.3	114.7	100.9	93.1	W	97.1	100.2	100.0	89.1	81.5	77.2	85.3
August 1997 .....	108.7	108.2	95.3	87.4	W	91.4	93.6	93.4	83.9	76.8	73.5	80.3
September 1996 .....	113.0	112.4	100.6	90.2	W	93.1	97.1	96.8	88.0	78.9	71.5	82.6

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."



**Table 33. Oxygenated Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**

(Cents per Gallon Excluding Taxes)

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>United States</b>												
September 1997 .....	91.3	91.1	84.6	74.8	W	78.2	97.9	97.9	88.2	77.7	—	81.4
August 1997 .....	89.3	89.2	79.8	77.7	—	78.5	96.6	96.6	84.5	79.2	—	81.1
September 1996 .....	97.1	96.7	88.1	79.7	—	82.9	104.7	104.4	93.7	82.0	—	87.4
<b>PAD District I</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Subdistrict IA</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Connecticut</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Maine</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Massachusetts</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>New Hampshire</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Rhode Island</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Vermont</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Subdistrict IB</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Delaware</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>District of Columbia</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Maryland</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>New Jersey</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>New York</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Pennsylvania</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 33. Oxygenated Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>United States</b>												
September 1997 .....	106.3	106.1	96.4	81.5	—	86.4	93.3	93.0	86.2	75.8	W	79.4
August 1997 .....	104.2	104.1	90.3	82.6	—	84.9	91.5	91.3	81.2	78.4	—	79.4
September 1996 .....	110.7	110.2	101.5	86.4	—	92.8	99.4	98.9	90.7	80.7	—	84.7
<b>PAD District I</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Subdistrict IA</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Connecticut</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Maine</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Massachusetts</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>New Hampshire</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Rhode Island</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Vermont</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Subdistrict IB</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Delaware</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>District of Columbia</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Maryland</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>New Jersey</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>New York</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Pennsylvania</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 33. Oxygenated Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Subdistrict IC</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Florida</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Georgia</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>North Carolina</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>South Carolina</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Virginia</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>West Virginia</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>PAD District II</b>												
September 1997 .....	93.0	92.6	80.1	71.5	W	73.3	98.0	97.9	82.1	72.2	-	74.9
August 1997 .....	93.3	93.0	80.3	77.2	-	77.9	98.5	98.4	84.0	77.7	-	79.7
September 1996 .....	95.6	95.3	W	79.1	-	79.8	103.1	102.7	W	79.9	-	82.6
<b>Illinois</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Indiana</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Iowa</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Kansas</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Kentucky</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Michigan</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Minnesota</b>												
September 1997 .....	93.0	92.6	80.1	71.4	W	73.3	98.0	97.9	82.1	72.1	-	74.9
August 1997 .....	93.3	93.0	80.3	77.1	-	77.9	98.5	98.4	84.0	77.7	-	79.7
September 1996 .....	95.6	95.3	W	79.1	-	79.8	103.1	102.7	W	79.9	-	82.6
<b>Missouri</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

**Table 33. Oxygenated Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Subdistrict IC</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Florida</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Georgia</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>North Carolina</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>South Carolina</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Virginia</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>West Virginia</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>PAD District II</b>												
September 1997 .....	105.3	105.3	88.2	75.4	-	78.1	94.6	94.2	81.1	71.9	W	73.9
August 1997 .....	105.5	105.5	86.6	80.5	-	81.9	95.0	94.7	81.4	77.5	-	78.4
September 1996 .....	107.6	107.4	W	83.4	-	85.7	97.5	97.1	W	79.6	-	80.8
<b>Illinois</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Indiana</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Iowa</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Kansas</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Kentucky</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Michigan</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Minnesota</b>												
September 1997 .....	105.3	105.3	88.2	75.4	-	78.1	94.6	94.2	81.1	71.9	W	73.9
August 1997 .....	105.5	105.5	86.6	80.5	-	81.9	95.0	94.7	81.4	77.5	-	78.4
September 1996 .....	107.6	107.4	W	83.4	-	85.7	97.5	97.1	W	79.6	-	80.8
<b>Missouri</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

**Table 33. Oxygenated Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Nebraska</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>North Dakota</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Ohio</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Oklahoma</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>South Dakota</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Tennessee</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Wisconsin</b>												
September 1997 .....	—	—	—	W	—	W	—	—	—	W	—	W
August 1997 .....	—	—	—	W	—	W	—	—	—	W	—	W
September 1996 .....	—	—	—	W	—	W	—	—	—	W	—	W
<b>PAD District III</b>												
September 1997 .....	W	W	W	77.5	—	76.8	W	W	W	85.2	—	84.0
August 1997 .....	W	W	W	—	—	W	W	W	W	—	—	W
September 1996 .....	93.2	92.2	W	78.0	—	78.1	101.5	101.5	W	81.7	—	82.5
<b>Alabama</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Arkansas</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Louisiana</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Mississippi</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>New Mexico</b>												
September 1997 .....	W	W	W	—	—	W	W	W	W	—	—	W
August 1997 .....	W	W	W	—	—	W	W	W	W	—	—	W
September 1996 .....	W	W	W	—	—	W	W	W	W	—	—	W
<b>Texas</b>												
September 1997 .....	—	W	W	77.5	—	77.5	—	—	W	85.2	—	85.3
August 1997 .....	—	W	—	—	—	—	—	—	—	—	—	—
September 1996 .....	W	NA	W	78.0	—	78.5	W	W	W	81.7	—	83.0
<b>PAD District IV</b>												
September 1997 .....	W	W	W	74.6	—	74.7	W	W	W	76.6	—	76.6
August 1997 .....	W	W	—	77.6	—	77.6	W	W	—	79.7	—	79.7
September 1996 .....	W	W	W	76.5	—	76.6	W	W	W	80.5	—	80.9
<b>Colorado</b>												
September 1997 .....	W	W	—	74.6	—	74.6	W	W	—	76.6	—	76.6
August 1997 .....	W	W	—	77.6	—	77.6	W	W	—	79.7	—	79.7
September 1996 .....	W	W	W	76.2	—	76.3	W	W	W	W	—	80.5

See footnotes at end of table.

**Table 33. Oxygenated Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Nebraska</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>North Dakota</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Ohio</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Oklahoma</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>South Dakota</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Tennessee</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Wisconsin</b>												
September 1997 .....	—	—	—	W	—	W	—	—	—	W	—	W
August 1997 .....	—	—	—	W	—	W	—	—	—	W	—	W
September 1996 .....	—	—	—	—	—	—	—	—	—	W	—	W
<b>PAD District III</b>												
September 1997 .....	W	W	W	86.2	—	85.9	W	W	W	79.4	—	78.7
August 1997 .....	W	W	W	—	—	W	W	W	W	—	—	W
September 1996 .....	110.6	108.2	W	84.1	—	85.4	97.5	96.4	W	79.3	—	79.6
<b>Alabama</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Arkansas</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Louisiana</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Mississippi</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>New Mexico</b>												
September 1997 .....	W	W	W	—	—	W	W	W	W	—	—	W
August 1997 .....	W	W	W	—	—	W	W	W	W	—	—	W
September 1996 .....	W	W	W	—	—	W	W	W	W	—	—	W
<b>Texas</b>												
September 1997 .....	—	W	W	86.2	—	86.2	—	W	W	79.4	—	79.5
August 1997 .....	—	—	—	—	—	—	—	W	—	—	—	—
September 1996 .....	W	W	W	84.1	—	85.3	W	W	W	79.3	—	80.0
<b>PAD District IV</b>												
September 1997 .....	W	W	W	81.1	—	81.1	W	W	W	75.8	—	75.8
August 1997 .....	W	W	—	84.1	—	84.1	W	W	—	78.7	—	78.7
September 1996 .....	W	W	W	85.3	—	85.7	W	W	W	78.1	—	78.3
<b>Colorado</b>												
September 1997 .....	W	W	—	81.1	—	81.1	W	W	—	75.8	—	75.8
August 1997 .....	W	W	—	84.1	—	84.1	W	W	—	78.7	—	78.7
September 1996 .....	W	W	W	84.6	—	85.1	W	W	W	77.7	—	77.9

See footnotes at end of table.

**Table 33. Oxygenated Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Idaho</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Montana</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	W	—	W	—	—	—	W	—	W
<b>Utah</b>												
September 1997 .....	—	—	W	—	—	W	—	—	W	—	—	W
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	W	—	W	—	W	—	W	—	W	—	W
<b>Wyoming</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>PAD District V</b>												
September 1997 .....	88.6	88.7	87.4	87.9	—	87.6	97.9	97.9	92.4	90.3	—	91.5
August 1997 .....	W	W	W	84.6	—	W	W	W	W	89.8	—	86.3
September 1996 .....	NA	NA	NA	83.6	—	87.8	NA	NA	96.1	88.1	—	93.7
<b>Alaska</b>												
September 1997 .....	W	W	—	—	—	—	W	W	W	—	—	W
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	W	W	W	—	—	W	W	W	W	—	—	W
<b>Arizona</b>												
September 1997 .....	W	W	W	—	—	W	W	W	W	—	—	W
August 1997 .....	NA	NA	—	—	—	—	NA	NA	—	—	—	—
September 1996 .....	W	W	87.0	79.6	—	85.6	W	W	92.3	87.5	—	92.1
<b>California</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Hawaii</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Nevada</b>												
September 1997 .....	W	W	85.4	90.5	—	86.3	W	W	90.7	96.2	—	91.7
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	90.1	88.8	81.1	83.1	—	82.0	97.0	97.0	86.2	85.0	—	85.9
<b>Oregon</b>												
September 1997 .....	94.9	94.9	W	W	—	W	103.6	103.6	W	W	—	W
August 1997 .....	W	W	W	W	—	W	W	W	W	W	—	W
September 1996 .....	NA	NA	NA	—	—	NA	NA	NA	NA	—	—	NA
<b>Washington</b>												
September 1997 .....	W	W	W	87.1	—	87.0	W	W	W	89.1	—	90.5
August 1997 .....	W	W	W	84.8	—	79.7	W	W	W	89.9	—	85.7
September 1996 .....	NA	NA	NA	84.1	—	NA	NA	NA	NA	88.7	—	95.5

See footnotes at end of table.

**Table 33. Oxygenated Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Idaho</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Montana</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	W	—	W	—	—	—	W	—	W
<b>Utah</b>												
September 1997 .....	—	—	W	—	—	W	—	—	W	—	—	W
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	W	—	W	—	W	—	W	—	W	—	W
<b>Wyoming</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>PAD District V</b>												
September 1997 .....	108.5	108.4	100.7	99.9	—	100.4	91.0	91.0	89.3	89.7	—	89.4
August 1997 .....	W	W	W	97.8	—	95.2	W	W	W	86.8	—	82.4
September 1996 .....	NA	NA	NA	92.9	—	99.9	NA	NA	NA	85.5	—	90.3
<b>Alaska</b>												
September 1997 .....	W	W	W	W	—	W	W	W	W	W	—	W
August 1997 .....	—	W	—	W	—	W	—	W	—	W	—	W
September 1996 .....	W	NA	W	W	—	NA	W	NA	W	W	—	NA
<b>Arizona</b>												
September 1997 .....	W	W	W	—	—	W	W	W	W	—	—	W
August 1997 .....	W	W	W	—	—	W	W	W	W	—	—	W
September 1996 .....	106.2	106.2	98.5	90.9	—	97.7	NA	NA	89.6	81.1	—	88.3
<b>California</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Hawaii</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Nevada</b>												
September 1997 .....	W	W	98.8	102.8	—	99.6	W	W	88.4	93.5	—	89.4
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	NA	NA	93.9	90.0	—	92.3	93.3	91.9	84.2	84.5	—	84.3
<b>Oregon</b>												
September 1997 .....	113.5	113.5	W	W	—	W	96.4	96.4	W	W	—	W
August 1997 .....	W	W	W	W	—	W	W	W	W	W	—	W
September 1996 .....	NA	NA	NA	—	—	NA	NA	NA	NA	—	—	NA
<b>Washington</b>												
September 1997 .....	W	W	W	98.6	—	100.1	W	W	W	88.6	—	88.5
August 1997 .....	W	W	W	97.1	—	94.7	W	W	W	86.9	—	81.7
September 1996 .....	NA	NA	NA	94.1	—	NA	NA	NA	NA	86.1	—	NA

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."



**Table 34. Reformulated Motor Gasoline Prices by Grade, Sales Type,  
PAD District, and State**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>United States</b>												
September 1997 .....	87.8	86.9	83.7	72.0	68.6	76.7	97.1	96.3	89.4	76.0	W	85.3
August 1997 .....	84.9	84.4	80.6	74.0	70.9	76.5	94.2	93.7	86.5	78.3	W	84.0
September 1996 .....	82.1	82.0	76.0	69.6	66.1	72.2	91.0	90.6	81.2	73.7	W	79.1
<b>PAD District I</b>												
September 1997 .....	86.4	85.5	80.3	69.8	65.1	73.8	95.3	94.0	85.9	74.2	—	81.9
August 1997 .....	84.3	83.9	79.3	73.9	69.7	75.7	93.6	92.7	85.0	78.1	—	82.5
September 1996 .....	81.0	80.2	76.0	68.5	64.2	71.1	90.9	89.7	82.1	72.9	—	78.9
<b>Subdistrict IA</b>												
September 1997 .....	88.6	87.7	81.0	71.3	65.0	74.5	97.6	96.1	87.9	75.5	—	82.4
August 1997 .....	86.6	86.1	80.3	75.6	71.3	76.9	96.0	95.1	87.2	79.8	—	83.9
September 1996 .....	81.9	81.7	77.0	69.4	64.2	71.5	91.6	90.6	83.2	72.9	—	79.0
<b>Connecticut</b>												
September 1997 .....	88.0	87.6	80.6	71.4	63.6	74.7	97.4	95.0	86.4	75.1	—	81.4
August 1997 .....	86.5	86.2	77.0	75.3	W	75.4	96.4	94.7	84.4	79.2	—	82.2
September 1996 .....	80.9	80.6	75.5	69.7	W	70.8	90.7	88.7	80.8	73.3	—	77.7
<b>Maine</b>												
September 1997 .....	89.2	89.1	79.5	71.6	W	73.4	98.0	97.6	83.6	75.8	—	78.1
August 1997 .....	87.1	87.0	80.9	75.6	—	76.9	96.7	96.3	85.8	80.1	—	81.6
September 1996 .....	81.7	81.5	76.1	68.2	—	69.6	92.8	92.2	88.9	70.9	—	77.9
<b>Massachusetts</b>												
September 1997 .....	89.0	87.4	81.1	70.8	65.3	74.2	98.1	96.7	89.3	75.3	—	83.7
August 1997 .....	86.4	85.7	82.2	75.6	71.3	77.5	95.9	95.1	89.4	79.9	—	85.6
September 1996 .....	82.7	82.5	78.3	69.5	64.2	72.3	92.1	91.4	84.5	73.2	—	80.5
<b>New Hampshire</b>												
September 1997 .....	89.5	89.3	82.5	70.2	—	78.0	98.4	98.0	88.2	75.1	—	85.7
August 1997 .....	88.3	88.2	82.3	74.6	—	79.6	97.0	96.6	87.3	79.8	—	85.9
September 1996 .....	83.5	83.4	76.8	70.4	—	74.6	94.0	93.9	82.4	75.9	—	81.2
<b>Rhode Island</b>												
September 1997 .....	86.2	86.1	82.1	72.8	—	75.5	94.1	93.7	87.6	77.0	—	81.7
August 1997 .....	84.3	84.3	80.4	76.8	—	77.8	93.2	93.2	86.4	80.7	—	82.9
September 1996 .....	78.8	78.7	75.3	69.5	W	70.2	87.7	87.5	80.5	73.0	—	76.5
<b>Vermont</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Subdistrict IB</b>												
September 1997 .....	85.6	84.8	80.3	69.3	65.1	73.8	94.8	93.5	85.8	74.2	—	82.4
August 1997 .....	83.0	82.7	79.0	72.8	69.0	75.0	92.5	91.7	84.5	77.1	—	82.2
September 1996 .....	80.0	79.1	75.3	68.2	64.2	70.8	90.3	89.0	81.6	73.2	—	79.0
<b>Delaware</b>												
September 1997 .....	81.9	81.4	75.7	69.8	—	72.2	91.7	90.7	81.3	73.4	—	77.5
August 1997 .....	80.0	79.8	74.0	70.2	—	71.5	89.7	89.3	79.8	74.2	—	76.7
September 1996 .....	80.6	80.4	73.8	67.4	W	70.7	90.2	89.6	80.3	71.0	—	76.2
<b>District of Columbia</b>												
September 1997 .....	W	75.8	80.3	—	—	80.3	W	85.6	83.3	—	—	83.3
August 1997 .....	W	78.3	78.9	—	—	78.9	W	86.4	81.8	—	—	81.8
September 1996 .....	W	74.6	79.2	—	—	79.2	W	85.7	83.2	—	—	83.2
<b>Maryland</b>												
September 1997 .....	83.6	81.7	76.9	66.3	—	73.2	91.8	88.1	82.1	69.8	—	79.1
August 1997 .....	83.0	81.3	75.2	71.2	W	73.7	91.6	88.4	80.0	74.7	—	78.6
September 1996 .....	83.7	80.9	76.1	67.9	65.3	73.3	93.2	88.2	81.4	72.7	—	79.4
<b>New Jersey</b>												
September 1997 .....	87.1	86.6	81.9	69.6	64.8	72.4	97.5	96.6	87.9	76.9	—	84.3
August 1997 .....	83.3	83.2	80.1	73.5	68.6	74.2	94.1	93.6	86.4	79.2	—	83.9
September 1996 .....	80.6	79.9	75.3	67.7	64.2	69.0	92.7	91.8	81.4	73.3	—	78.2
<b>New York</b>												
September 1997 .....	88.6	87.7	84.5	70.0	67.6	77.0	97.1	96.4	90.6	73.9	—	86.6
August 1997 .....	86.3	86.0	84.2	74.1	73.2	79.3	95.4	94.9	91.0	77.6	—	87.6
September 1996 .....	80.1	78.9	76.2	70.1	64.1	73.3	88.9	88.1	84.1	75.5	—	82.2
<b>Pennsylvania</b>												
September 1997 .....	81.9	81.4	77.3	71.0	—	74.9	91.5	90.9	81.8	75.1	—	79.4
August 1997 .....	79.8	79.6	76.0	72.0	—	74.3	89.5	89.1	80.2	77.0	—	79.0
September 1996 .....	75.8	75.5	71.6	67.7	W	69.7	86.6	85.9	76.8	72.5	—	74.8

See footnotes at end of table.

**Table 34. Reformulated Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>United States</b>												
September 1997 .....	104.7	103.8	96.1	81.2	75.0	89.8	92.0	91.1	87.3	73.9	69.4	80.2
August 1997 .....	102.2	101.4	93.7	84.4	78.6	89.6	89.2	88.6	84.6	76.2	71.8	79.9
September 1996 .....	99.2	98.4	88.9	79.1	70.8	84.4	86.5	86.2	79.8	71.7	66.8	75.6
<b>PAD District I</b>												
September 1997 .....	103.2	101.6	93.4	80.0	72.0	87.4	90.8	89.8	84.6	72.3	66.1	77.8
August 1997 .....	101.0	100.1	92.4	84.3	79.9	88.7	89.0	88.4	83.7	76.5	71.1	79.5
September 1996 .....	98.8	97.3	89.2	78.3	67.6	83.7	86.2	85.2	80.8	71.1	64.9	75.2
<b>Subdistrict IA</b>												
September 1997 .....	106.0	103.3	93.5	81.3	72.3	86.1	92.2	91.2	84.1	73.3	66.1	77.3
August 1997 .....	104.1	102.6	93.9	85.9	W	89.5	90.4	89.9	83.8	77.8	72.3	79.8
September 1996 .....	100.0	98.8	89.7	79.1	W	83.1	86.1	85.7	80.6	71.4	64.8	74.4
<b>Connecticut</b>												
September 1997 .....	107.4	105.7	93.0	81.7	W	85.1	92.3	91.5	83.5	73.5	65.5	77.3
August 1997 .....	105.9	104.7	91.5	85.5	W	87.7	90.9	90.4	80.5	77.5	W	78.2
September 1996 .....	100.5	99.0	87.9	80.4	W	83.8	85.5	84.9	78.9	72.2	64.4	73.8
<b>Maine</b>												
September 1997 .....	106.3	104.8	90.7	81.3	—	83.5	91.9	91.7	81.3	73.2	W	75.1
August 1997 .....	104.5	103.4	92.4	86.0	—	87.6	90.2	90.1	83.1	77.5	—	78.9
September 1996 .....	99.9	98.4	87.5	77.6	—	79.5	85.3	85.0	80.4	69.7	—	72.0
<b>Massachusetts</b>												
September 1997 .....	105.5	101.6	93.6	80.5	W	86.8	92.5	90.9	84.6	72.8	66.2	77.2
August 1997 .....	103.1	101.2	95.3	85.9	W	91.2	90.3	89.5	85.9	77.8	71.7	80.6
September 1996 .....	100.2	98.9	91.2	78.6	W	83.1	86.9	86.5	82.0	71.5	65.3	75.3
<b>New Hampshire</b>												
September 1997 .....	106.8	106.7	94.7	79.9	—	90.1	92.7	92.5	85.1	71.8	—	80.6
August 1997 .....	105.1	105.0	94.4	84.5	—	91.5	91.6	91.4	85.1	76.4	—	82.2
September 1996 .....	101.2	100.9	88.6	81.7	—	86.6	87.5	87.3	79.7	72.5	—	77.4
<b>Rhode Island</b>												
September 1997 .....	101.3	100.9	94.9	82.9	—	86.9	89.4	89.3	85.4	74.9	—	78.2
August 1997 .....	100.5	100.4	93.5	86.9	—	88.8	87.9	87.9	83.9	79.1	—	80.5
September 1996 .....	95.7	95.4	88.3	78.8	—	82.4	82.9	82.8	78.8	71.6	W	72.9
<b>Vermont</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Subdistrict IB</b>												
September 1997 .....	102.9	101.6	93.9	79.8	72.0	88.3	90.9	89.9	85.3	72.1	66.1	78.5
August 1997 .....	100.1	99.3	92.4	83.6	79.3	88.8	88.4	87.8	84.0	75.7	70.7	79.5
September 1996 .....	98.3	96.6	89.1	78.0	67.2	83.7	86.2	84.9	80.7	71.2	64.9	75.4
<b>Delaware</b>												
September 1997 .....	101.0	99.7	89.4	79.8	—	84.0	86.1	85.5	78.9	71.8	—	74.9
August 1997 .....	98.4	97.9	88.1	80.1	—	83.1	84.5	84.3	77.5	72.3	—	74.2
September 1996 .....	NA	98.8	87.8	76.8	—	82.5	85.1	84.7	77.2	69.6	W	73.4
<b>District of Columbia</b>												
September 1997 .....	W	91.5	89.3	—	—	89.3	W	81.2	84.7	—	—	84.7
August 1997 .....	W	92.5	87.5	—	—	87.5	W	83.2	83.2	—	—	83.2
September 1996 .....	W	89.9	91.1	—	—	91.1	W	80.4	85.1	—	—	85.1
<b>Maryland</b>												
September 1997 .....	97.6	95.1	87.1	75.4	W	84.0	87.4	85.2	80.4	68.5	W	76.7
August 1997 .....	97.2	94.7	85.1	80.4	W	83.8	86.8	84.9	78.6	73.5	W	76.9
September 1996 .....	99.9	95.9	87.9	78.6	W	85.6	88.2	84.9	80.1	70.6	65.9	77.2
<b>New Jersey</b>												
September 1997 .....	105.9	104.9	96.3	80.8	71.4	88.1	92.7	92.1	86.9	72.9	65.6	77.0
August 1997 .....	102.4	101.8	93.8	84.8	81.1	89.2	89.2	89.0	85.1	76.8	70.2	78.6
September 1996 .....	100.8	99.2	89.4	77.1	66.8	80.5	87.4	86.5	80.8	70.7	64.7	72.9
<b>New York</b>												
September 1997 .....	103.2	102.3	97.2	79.9	73.8	91.4	94.0	93.1	90.5	73.0	69.3	83.0
August 1997 .....	99.9	99.5	97.0	84.1	75.1	92.0	91.6	91.1	90.4	77.2	74.2	85.0
September 1996 .....	96.6	95.0	90.6	78.9	69.9	87.3	86.3	84.9	83.2	73.3	65.3	79.5
<b>Pennsylvania</b>												
September 1997 .....	98.9	97.6	89.6	81.7	—	87.2	86.7	86.0	80.8	73.4	—	78.1
August 1997 .....	96.8	96.0	87.6	83.8	—	86.3	84.8	84.4	79.4	74.8	—	77.6
September 1996 .....	94.5	93.1	84.5	78.7	W	82.3	82.1	81.3	75.8	70.5	W	73.3

See footnotes at end of table.

**Table 34. Reformulated Motor Gasoline Prices by Grade, Sales Type,  
PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Subdistrict IC</b>												
September 1997 .....	82.7	82.2	77.3	66.8	W	71.4	92.3	91.2	83.0	71.5	—	78.3
August 1997 .....	82.7	82.4	78.0	72.8	W	75.1	92.1	91.4	82.9	77.3	—	80.6
September 1996 .....	81.2	80.2	77.2	67.0	—	71.9	91.2	89.8	82.5	71.7	—	78.2
<b>Florida</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Georgia</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>North Carolina</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>South Carolina</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Virginia</b>												
September 1997 .....	82.7	82.2	77.3	66.8	W	71.4	92.3	91.2	83.0	71.5	—	78.3
August 1997 .....	82.7	82.4	78.0	72.8	W	75.1	92.1	91.4	82.9	77.3	—	80.6
September 1996 .....	81.2	80.2	77.2	67.0	—	71.9	91.2	89.8	82.5	71.7	—	78.2
<b>West Virginia</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>PAD District II</b>												
September 1997 .....	83.9	83.6	76.5	69.4	W	73.0	93.8	93.2	82.9	73.0	—	80.3
August 1997 .....	87.8	87.4	80.7	76.3	W	78.7	97.2	96.7	87.3	79.8	—	85.4
September 1996 .....	86.2	85.7	79.8	72.3	—	75.9	95.7	95.7	86.4	76.2	—	83.4
<b>Illinois</b>												
September 1997 .....	84.8	84.4	78.5	69.4	W	74.8	95.0	94.1	83.5	72.3	—	81.7
August 1997 .....	88.7	88.5	81.9	76.7	W	80.0	98.4	97.6	87.9	79.8	—	86.7
September 1996 .....	86.6	86.2	82.0	72.5	—	78.0	95.8	95.9	87.7	76.5	—	85.7
<b>Indiana</b>												
September 1997 .....	80.9	81.0	76.6	70.3	—	72.4	90.2	89.7	82.8	74.6	—	78.0
August 1997 .....	85.0	83.9	79.9	77.3	—	78.2	94.6	94.2	87.1	81.2	—	83.5
September 1996 .....	84.1	83.9	76.9	73.6	—	74.5	93.3	93.3	83.1	77.8	—	80.1
<b>Iowa</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Kansas</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Kentucky</b>												
September 1997 .....	82.0	81.6	74.5	69.0	—	71.7	91.7	91.5	81.2	72.9	—	77.4
August 1997 .....	84.2	84.0	78.7	74.7	—	76.7	93.9	93.8	84.6	78.6	—	82.0
September 1996 .....	85.4	84.8	73.9	70.4	—	71.4	97.2	96.8	78.4	74.4	—	76.0
<b>Michigan</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Minnesota</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Missouri</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 34. Reformulated Motor Gasoline Prices by Grade, Sales Type,  
PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Subdistrict IC</b>												
September 1997 .....	99.3	98.4	89.1	77.6	W	84.0	87.4	86.7	81.5	69.5	W	75.3
August 1997 .....	99.4	98.7	88.8	83.4	W	86.4	87.4	86.9	81.8	75.5	W	78.6
September 1996 .....	98.5	97.4	89.2	77.8	—	84.6	86.3	85.2	81.4	69.7	—	75.9
<b>Florida</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Georgia</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>North Carolina</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>South Carolina</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Virginia</b>												
September 1997 .....	99.3	98.4	89.1	77.6	W	84.0	87.4	86.7	81.5	69.5	W	75.3
August 1997 .....	99.4	98.7	88.8	83.4	W	86.4	87.4	86.9	81.8	75.5	W	78.6
September 1996 .....	98.5	97.4	89.2	77.8	—	84.6	86.3	85.2	81.4	69.7	—	75.9
<b>West Virginia</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>PAD District II</b>												
September 1997 .....	100.5	99.6	88.5	78.1	—	84.6	87.8	87.4	80.0	71.0	W	76.1
August 1997 .....	104.2	103.3	92.7	85.1	—	89.9	91.5	91.1	84.1	77.9	W	81.5
September 1996 .....	101.7	100.9	90.9	81.2	—	87.1	90.1	89.5	83.4	74.0	—	79.0
<b>Illinois</b>												
September 1997 .....	101.3	100.2	89.3	78.0	—	86.3	88.9	88.4	82.0	71.1	W	78.3
August 1997 .....	104.9	104.0	93.7	85.4	—	91.5	92.7	92.4	85.5	78.4	W	83.3
September 1996 .....	101.0	100.3	92.3	81.5	—	89.4	90.8	90.3	85.6	74.4	—	81.8
<b>Indiana</b>												
September 1997 .....	96.5	95.3	88.4	80.0	—	83.3	84.3	84.1	79.6	72.3	—	75.0
August 1997 .....	102.0	100.1	89.7	86.9	—	88.2	88.3	87.2	83.0	79.3	—	80.7
September 1996 .....	101.5	100.5	88.4	83.0	—	84.9	88.4	88.0	80.4	75.7	—	77.2
<b>Iowa</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Kansas</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Kentucky</b>												
September 1997 .....	101.2	101.0	87.4	78.2	—	83.0	86.1	85.7	77.7	70.9	—	74.3
August 1997 .....	103.3	103.0	91.1	83.8	—	87.7	88.3	88.0	81.6	76.5	—	79.2
September 1996 .....	106.1	106.0	84.9	79.5	—	81.2	90.3	89.7	76.6	72.3	—	73.6
<b>Michigan</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Minnesota</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Missouri</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 34. Reformulated Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Nebraska</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>North Dakota</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Ohio</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Oklahoma</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>South Dakota</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Tennessee</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	W	—	—	—	—	—	W	—	—	—	—
<b>Wisconsin</b>												
September 1997 .....	83.6	83.5	72.8	69.3	—	70.7	92.4	92.7	80.3	72.9	—	77.2
August 1997 .....	88.7	88.5	79.0	76.4	—	77.5	97.3	97.2	85.7	80.0	—	83.2
September 1996 .....	86.6	85.8	76.8	72.5	—	74.3	94.8	94.5	83.3	76.4	—	80.2
<b>PAD District III</b>												
September 1997 .....	78.0	77.8	73.4	64.3	59.9	65.7	88.5	88.3	80.4	68.7	—	72.9
August 1997 .....	78.5	78.4	75.0	69.9	68.7	70.8	89.0	88.7	81.1	74.1	—	76.7
September 1996 .....	75.6	75.3	70.8	64.6	61.6	66.0	86.3	86.0	76.5	68.7	—	72.8
<b>Alabama</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Arkansas</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Louisiana</b>												
September 1997 .....	—	W	—	W	W	W	—	—	—	—	—	—
August 1997 .....	—	W	—	—	W	W	—	—	—	—	—	—
September 1996 .....	—	W	—	—	60.0	60.0	—	—	—	—	—	—
<b>Mississippi</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>New Mexico</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Texas</b>												
September 1997 .....	78.0	77.8	73.4	64.3	60.1	65.8	88.5	88.3	80.4	68.7	—	72.9
August 1997 .....	78.5	78.4	75.0	69.9	68.4	70.8	89.0	88.7	81.1	74.1	—	76.7
September 1996 .....	75.6	75.3	70.8	64.6	62.4	66.5	86.3	86.0	76.5	68.7	—	72.8
<b>PAD District IV</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Colorado</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 34. Reformulated Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Nebraska</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>North Dakota</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Ohio</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Oklahoma</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>South Dakota</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Tennessee</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	W	-	-	-	-	-	W	-	-	-	-
<b>Wisconsin</b>												
September 1997 .....	96.0	95.4	83.1	77.1	-	79.6	85.8	85.6	74.7	70.4	-	72.2
August 1997 .....	101.6	100.5	88.9	84.6	-	86.4	90.9	90.6	80.8	77.5	-	78.9
September 1996 .....	100.4	99.2	85.1	80.5	-	82.7	88.8	88.0	78.4	73.7	-	75.8
<b>PAD District III</b>												
September 1997 .....	95.9	95.7	87.0	74.7	67.3	77.6	82.7	82.5	77.7	66.5	61.2	68.7
August 1997 .....	96.4	96.2	87.6	80.2	W	82.2	83.3	83.1	78.9	72.1	69.4	73.5
September 1996 .....	93.7	93.3	82.8	74.5	65.6	77.0	80.6	80.3	74.1	66.7	62.1	68.7
<b>Alabama</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Arkansas</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Louisiana</b>												
September 1997 .....	-	-	-	-	W	W	-	W	-	W	W	W
August 1997 .....	-	-	-	-	-	-	-	W	-	-	W	W
September 1996 .....	-	-	-	-	W	W	-	W	-	-	60.1	60.1
<b>Mississippi</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>New Mexico</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Texas</b>												
September 1997 .....	95.9	95.7	87.0	74.7	W	78.2	82.7	82.5	77.7	66.5	61.2	68.8
August 1997 .....	96.4	96.2	87.6	80.2	W	82.2	83.3	83.1	78.9	72.1	69.3	73.5
September 1996 .....	93.7	93.3	82.8	74.5	W	77.3	80.6	80.3	74.1	66.7	63.0	69.2
<b>PAD District IV</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Colorado</b>												
September 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1997 .....	-	-	-	-	-	-	-	-	-	-	-	-
September 1996 .....	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

**Table 34. Reformulated Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Idaho</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Montana</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Utah</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Wyoming</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>PAD District V</b>												
September 1997 .....	94.5	92.5	89.8	81.8	NA	83.6	103.3	102.5	95.5	88.2	W	94.1
August 1997 .....	86.7	85.9	82.6	75.4	72.2	78.4	96.0	95.6	88.5	81.8	W	87.2
September 1996 .....	84.9	85.4	76.1	73.0	69.2	74.2	91.9	92.2	80.2	78.5	W	79.9
<b>Alaska</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Arizona</b>												
September 1997 .....	93.8	93.5	85.1	80.4	W	83.8	104.0	103.9	90.7	86.8	—	90.2
August 1997 .....	87.0	86.8	76.5	74.1	—	76.0	97.0	96.9	81.8	79.5	—	81.5
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>California</b>												
September 1997 .....	94.6	92.4	90.1	81.9	NA	83.6	103.2	102.4	95.7	88.2	W	94.3
August 1997 .....	NA	85.7	82.9	75.4	72.2	78.5	95.9	95.5	88.7	81.9	W	87.4
September 1996 .....	84.9	85.4	76.1	73.0	69.2	74.2	91.9	92.2	80.2	78.5	W	79.9
<b>Hawaii</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Nevada</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Oregon</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	W	W	—	W	—	—	—	W	—	W
<b>Washington</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 34. Reformulated Motor Gasoline Prices by Grade, Sales Type,  
PAD District, and State**

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Idaho</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Montana</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Utah</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Wyoming</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>PAD District V</b>												
September 1997 .....	112.8	111.3	104.3	94.5	82.5	100.5	98.5	96.8	93.3	83.8	NA	87.2
August 1997 .....	105.5	104.4	97.2	88.4	77.1	93.3	90.9	90.1	86.3	77.4	72.7	81.7
September 1996 .....	102.6	102.5	88.8	85.0	77.0	86.9	88.4	88.8	79.2	74.9	70.3	77.1
<b>Alaska</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Arizona</b>												
September 1997 .....	113.4	113.3	98.5	91.1	—	97.1	97.3	97.0	88.0	82.3	W	86.6
August 1997 .....	106.3	106.1	90.3	87.0	W	88.9	90.7	90.5	79.6	76.7	W	78.9
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>California</b>												
September 1997 .....	112.7	111.0	104.6	94.6	82.5	100.6	98.6	96.7	93.6	83.8	NA	87.2
August 1997 .....	105.4	104.2	97.5	88.4	77.3	93.5	90.9	90.0	86.6	77.5	72.7	81.8
September 1996 .....	102.6	102.5	88.8	85.0	77.0	86.9	88.4	88.8	79.2	74.9	70.3	77.1
<b>Hawaii</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Nevada</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Oregon</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	W	W	—	W	—	—	W	W	—	W
<b>Washington</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."



**Table 35. Refiner Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Regular			Midgrade			Premium			All Grades		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>	
United States												
September 1997 .....	83.7	70.0	69.5	93.2	80.4	77.9	101.5	95.2	82.0	87.7	75.4	72.3
August 1997 .....	83.2	72.1	72.3	92.6	77.9	79.5	100.8	89.6	84.5	87.2	75.8	75.0
September 1996 .....	80.8	71.0	68.8	89.8	76.4	76.1	98.0	81.1	80.9	84.9	73.2	71.6
PAD District I												
September 1997 .....	80.5	66.5	68.9	90.6	70.9	75.6	99.5	77.0	81.8	85.7	68.4	72.4
August 1997 .....	78.9	70.3	72.0	89.1	74.2	78.2	97.3	79.3	84.9	84.0	72.3	75.5
September 1996 .....	76.9	65.8	67.9	87.4	69.7	74.7	96.3	74.4	80.9	82.6	67.7	71.7
Subdistrict IA												
September 1997 .....	92.1	73.4	74.9	101.8	W	83.2	110.2	81.7	87.0	97.2	73.7	77.9
August 1997 .....	88.8	76.3	76.8	98.9	84.1	84.9	107.1	97.2	90.4	94.1	78.4	80.0
September 1996 .....	84.3	69.7	72.0	94.7	W	79.3	103.4	W	83.3	90.2	71.4	75.1
Connecticut												
September 1997 .....	W	W	73.9	W	W	81.7	W	W	84.8	W	W	76.9
August 1997 .....	W	W	76.7	W	W	84.5	W	W	88.9	W	80.2	79.8
September 1996 .....	W	71.6	71.0	W	W	77.9	W	W	83.4	W	72.6	74.1
Maine												
September 1997 .....	—	—	70.1	—	—	75.1	—	—	80.9	—	—	71.7
August 1997 .....	—	—	72.2	—	—	79.6	—	—	86.0	—	—	74.6
September 1996 .....	—	W	69.1	—	—	73.4	—	—	78.9	—	W	70.9
Massachusetts												
September 1997 .....	93.3	73.1	77.0	102.5	W	86.6	111.2	W	89.6	98.3	73.6	80.3
August 1997 .....	90.0	72.7	78.3	99.5	W	87.4	108.0	—	93.2	95.1	75.8	81.8
September 1996 .....	86.2	69.3	73.8	95.8	W	82.7	105.4	W	84.0	92.0	71.3	77.1
New Hampshire												
September 1997 .....	90.7	W	81.2	101.5	—	86.9	108.0	—	94.2	95.3	W	84.0
August 1997 .....	87.2	—	80.5	97.8	W	85.8	104.0	W	92.8	91.8	W	83.3
September 1996 .....	83.3	W	75.5	95.1	W	81.2	100.6	W	88.4	88.8	W	78.6
Rhode Island												
September 1997 .....	88.3	W	75.7	95.4	—	81.8	103.0	—	87.5	92.3	W	78.5
August 1997 .....	84.7	W	77.8	92.3	—	83.0	100.7	—	89.2	88.9	W	80.6
September 1996 .....	79.4	69.6	71.2	88.6	W	76.5	97.2	W	82.2	84.6	70.4	74.0
Vermont												
September 1997 .....	—	—	73.2	—	—	79.9	—	—	84.7	—	—	75.5
August 1997 .....	—	—	75.7	—	—	81.3	—	—	86.7	—	—	78.1
September 1996 .....	—	—	72.6	—	—	78.9	—	—	83.8	—	—	75.3
Subdistrict IB												
September 1997 .....	84.6	67.6	72.0	94.4	76.6	80.4	103.7	82.7	85.1	89.8	70.0	75.9
August 1997 .....	81.1	74.0	73.6	91.3	78.8	80.4	98.7	84.7	87.2	86.1	76.4	77.5
September 1996 .....	78.1	69.5	69.3	87.5	72.9	77.0	96.9	78.7	82.7	83.5	71.4	73.5
Delaware												
September 1997 .....	85.0	W	72.2	96.1	W	77.5	108.1	W	84.0	91.0	W	75.0
August 1997 .....	82.9	72.9	71.4	93.9	—	76.4	104.6	W	82.8	89.2	74.5	74.2
September 1996 .....	82.3	W	70.2	94.0	W	75.7	105.4	W	82.6	89.1	W	73.2
District of Columbia												
September 1997 .....	—	66.3	80.4	—	W	83.3	—	W	89.3	—	68.2	84.8
August 1997 .....	—	70.8	79.0	—	W	81.8	—	W	87.6	—	73.0	83.2
September 1996 .....	—	65.4	79.4	—	W	83.3	—	74.8	91.1	—	67.8	85.3
Maryland												
September 1997 .....	W	68.2	72.0	W	W	78.0	W	76.0	83.1	W	69.7	75.5
August 1997 .....	W	71.6	72.9	W	74.0	77.8	W	79.5	83.1	W	73.1	76.0
September 1996 .....	W	66.4	72.4	W	68.3	78.0	W	74.1	84.7	W	67.5	76.3
New Jersey												
September 1997 .....	89.1	61.8	72.1	99.8	79.0	85.2	108.2	85.9	84.3	95.4	65.4	76.4
August 1997 .....	84.5	74.7	74.3	95.8	W	84.6	104.2	87.0	89.9	91.1	79.0	79.0
September 1996 .....	81.2	69.3	68.9	93.2	73.8	78.6	101.9	W	80.9	88.5	72.7	73.2
New York												
September 1997 .....	83.4	75.3	74.2	93.5	79.1	84.3	102.3	84.4	90.1	88.2	76.6	79.2
August 1997 .....	79.6	74.9	75.6	90.2	79.6	84.4	95.0	84.6	89.6	83.8	76.4	80.4
September 1996 .....	76.3	71.2	70.5	85.7	74.4	79.8	95.0	81.8	86.7	81.3	72.8	75.9
Pennsylvania												
September 1997 .....	83.3	73.7	69.4	92.2	81.3	75.0	100.5	84.5	80.1	87.6	74.8	72.0
August 1997 .....	80.5	75.5	71.4	89.5	85.1	75.9	96.8	85.9	82.6	84.8	77.2	74.0
September 1996 .....	77.9	71.1	67.0	85.8	76.7	72.4	94.3	82.3	78.1	82.4	72.6	69.8

See footnotes at end of table.

**Table 35. Refiner Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular			Midgrade			Premium			All Grades		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>	
Subdistrict IC												
September 1997 .....	77.2	65.8	64.4	87.8	69.1	71.0	96.1	75.1	77.2	82.5	67.6	67.9
August 1997 .....	76.7	68.8	69.3	87.1	72.5	75.3	95.4	77.2	81.5	81.9	70.7	72.6
September 1996 .....	75.5	64.2	65.6	86.6	68.1	72.2	95.2	72.7	78.4	81.3	66.0	69.2
Florida												
September 1997 .....	78.1	65.8	66.0	89.3	69.2	73.6	97.1	76.5	80.7	84.0	67.8	70.6
August 1997 .....	77.6	69.2	70.3	88.6	72.1	77.2	96.7	77.2	84.1	83.5	70.9	74.6
September 1996 .....	77.1	64.4	67.1	89.1	67.7	74.9	97.2	72.7	81.8	83.9	66.0	71.9
Georgia												
September 1997 .....	74.1	64.9	62.5	84.0	67.8	69.1	93.4	74.0	74.3	79.1	66.9	65.5
August 1997 .....	74.1	67.5	67.2	84.0	71.2	73.7	93.3	76.3	79.3	79.1	69.7	70.2
September 1996 .....	71.6	63.0	64.1	82.1	67.4	70.3	90.9	71.2	75.3	77.1	65.3	67.1
North Carolina												
September 1997 .....	75.4	65.6	62.9	85.5	69.2	67.6	93.3	73.9	73.6	80.1	66.9	65.7
August 1997 .....	75.2	68.3	68.7	84.9	W	73.3	93.4	76.6	79.2	79.9	69.7	71.3
September 1996 .....	73.5	63.5	64.2	83.4	W	69.2	92.1	72.4	75.1	78.2	64.9	67.0
South Carolina												
September 1997 .....	73.3	65.5	62.7	83.3	W	68.0	92.1	75.0	73.8	77.6	67.6	65.3
August 1997 .....	73.4	68.4	68.4	83.1	W	73.4	88.8	77.2	79.3	77.2	70.4	71.0
September 1996 .....	70.4	63.7	64.2	80.6	W	69.4	89.4	72.5	75.1	74.9	65.6	66.8
Virginia												
September 1997 .....	82.1	67.0	66.7	92.9	W	73.0	99.4	74.9	78.9	87.1	68.6	70.1
August 1997 .....	80.4	70.8	71.4	91.2	W	76.6	98.1	78.7	82.2	85.4	72.6	74.5
September 1996 .....	79.7	64.7	67.4	90.9	W	73.6	98.2	73.8	80.0	85.2	66.7	71.0
West Virginia												
September 1997 .....	81.0	69.0	64.5	90.3	W	71.1	99.3	W	76.1	84.5	71.1	66.9
August 1997 .....	80.1	74.2	70.5	89.0	W	75.3	98.3	W	81.0	83.7	76.5	72.9
September 1996 .....	79.1	71.1	67.2	88.9	W	72.7	97.9	W	78.2	82.8	73.1	69.6
PAD District II												
September 1997 .....	80.7	70.3	66.3	89.5	75.4	73.1	96.6	76.2	76.9	83.8	71.1	68.1
August 1997 .....	85.1	74.8	72.2	93.8	79.9	78.8	101.2	81.9	83.0	88.1	75.9	74.0
September 1996 .....	80.3	71.9	68.4	89.0	77.4	75.6	96.0	80.1	78.8	83.4	73.3	70.3
Illinois												
September 1997 .....	83.8	66.1	68.5	94.4	W	79.8	99.8	W	83.0	87.8	67.1	71.7
August 1997 .....	87.0	73.1	73.1	97.3	W	85.1	103.9	85.6	87.7	91.0	76.1	76.4
September 1996 .....	84.2	69.5	70.9	94.1	W	83.2	99.9	W	84.6	88.2	74.1	74.5
Indiana												
September 1997 .....	80.4	66.3	65.3	87.3	W	71.4	91.8	W	76.1	82.9	66.3	67.3
August 1997 .....	84.8	73.5	71.0	92.1	W	77.3	98.2	W	82.9	87.5	73.6	73.1
September 1996 .....	75.3	72.5	66.9	83.7	W	74.0	89.9	W	78.1	78.5	72.8	69.1
Iowa												
September 1997 .....	81.6	70.8	67.5	89.3	W	72.6	91.3	W	75.5	82.6	71.3	68.4
August 1997 .....	82.8	W	73.3	88.0	—	77.9	92.4	W	81.4	83.9	W	74.2
September 1996 .....	83.1	W	69.7	W	—	75.3	93.4	W	79.1	84.0	W	70.4
Kansas												
September 1997 .....	80.6	73.7	66.3	89.7	—	75.2	96.5	W	75.0	82.7	73.7	67.0
August 1997 .....	83.0	76.1	72.0	92.2	—	78.7	99.2	W	80.3	85.2	76.4	72.7
September 1996 .....	80.0	73.3	67.7	89.3	—	76.4	95.8	W	76.3	82.2	73.5	68.5
Kentucky												
September 1997 .....	82.1	67.4	65.0	91.3	W	70.2	100.0	74.5	75.0	85.9	68.9	67.1
August 1997 .....	83.9	70.5	70.7	93.3	W	76.4	101.8	78.1	81.1	87.6	72.0	72.9
September 1996 .....	84.6	69.2	67.4	93.8	80.3	73.0	101.8	75.7	76.7	88.4	70.4	69.5
Michigan												
September 1997 .....	77.9	74.4	66.3	86.8	72.7	73.3	92.6	67.3	77.9	80.2	73.4	68.3
August 1997 .....	84.3	77.2	73.4	92.0	79.5	78.9	101.0	82.3	84.6	86.5	77.9	75.2
September 1996 .....	77.5	74.0	68.6	85.5	74.7	75.4	92.4	83.1	79.6	79.9	75.6	70.7
Minnesota												
September 1997 .....	94.0	73.9	69.7	100.9	W	75.4	107.5	W	77.1	95.9	74.1	70.6
August 1997 .....	93.5	76.9	74.9	100.7	W	80.2	107.7	W	82.2	95.5	77.0	75.7
September 1996 .....	94.7	79.2	72.9	101.8	W	82.8	108.8	W	82.4	96.7	79.5	74.1
Missouri												
September 1997 .....	81.8	71.3	67.2	92.3	W	77.6	102.0	78.7	76.9	85.1	72.1	68.7
August 1997 .....	84.4	75.4	72.2	94.6	W	80.8	104.2	81.2	81.9	87.7	76.3	73.6
September 1996 .....	78.1	71.7	67.9	88.3	W	75.5	97.2	W	77.4	81.7	72.6	69.4

See footnotes at end of table.

**Table 35. Refiner Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular			Midgrade			Premium			All Grades		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>	
Nebraska												
September 1997 .....	76.3	W	68.0	83.9	—	71.6	86.5	—	77.0	77.2	W	68.7
August 1997 .....	79.9	W	73.2	89.1	—	76.2	90.9	—	81.6	80.9	W	73.9
September 1996 .....	80.0	W	69.8	88.1	—	77.0	93.9	—	78.4	81.2	W	70.4
North Dakota												
September 1997 .....	W	W	70.2	—	—	W	W	—	79.7	W	W	71.0
August 1997 .....	W	W	75.0	—	—	W	W	—	84.4	W	W	75.7
September 1996 .....	W	W	72.7	W	—	W	W	—	82.8	W	W	73.5
Ohio												
September 1997 .....	78.9	71.6	65.2	87.4	W	71.6	95.7	82.8	76.7	82.1	73.0	67.4
August 1997 .....	86.0	75.4	72.4	94.8	W	79.1	102.5	W	84.8	89.1	76.9	74.6
September 1996 .....	78.0	W	68.4	86.5	W	74.7	94.1	W	79.7	81.3	W	70.7
Oklahoma												
September 1997 .....	75.9	73.2	63.7	83.8	W	69.0	91.9	74.5	72.6	78.7	73.3	64.4
August 1997 .....	79.3	73.0	69.1	87.3	75.0	74.6	95.3	73.9	78.5	82.1	73.1	70.1
September 1996 .....	76.2	67.5	65.0	83.9	69.9	71.7	91.8	W	72.8	79.2	67.9	65.8
South Dakota												
September 1997 .....	89.0	69.3	69.7	W	—	76.3	96.5	—	79.2	89.3	69.3	70.5
August 1997 .....	89.5	75.3	74.6	W	—	80.6	98.3	—	83.4	90.0	75.3	75.5
September 1996 .....	88.0	W	72.4	W	—	W	98.8	—	83.3	88.5	W	73.1
Tennessee												
September 1997 .....	77.2	64.5	63.1	88.3	67.5	68.7	96.7	72.5	73.9	83.0	66.0	66.0
August 1997 .....	78.2	66.8	69.0	88.7	75.5	74.2	97.3	75.8	79.8	83.8	68.8	71.8
September 1996 .....	78.6	64.0	64.3	90.0	69.8	70.0	96.4	71.9	75.3	84.2	65.8	67.3
Wisconsin												
September 1997 .....	82.5	64.7	66.5	91.0	W	72.8	96.1	W	75.5	84.6	64.9	67.8
August 1997 .....	86.5	71.4	73.6	94.9	W	79.7	100.9	W	82.8	88.6	72.1	74.9
September 1996 .....	83.0	69.9	69.1	91.0	W	76.0	96.9	—	78.5	85.3	70.0	70.6
PAD District III												
September 1997 .....	78.5	62.7	62.7	89.1	66.5	69.6	97.0	74.0	73.5	83.2	63.7	64.7
August 1997 .....	78.3	65.2	67.0	88.9	70.3	73.8	96.9	76.3	77.6	83.0	66.7	69.0
September 1996 .....	76.5	64.8	63.0	87.0	64.9	69.9	94.5	73.1	73.5	81.4	66.1	65.0
Alabama												
September 1997 .....	77.4	64.2	63.1	87.2	68.4	68.3	96.1	73.5	74.1	82.3	66.8	65.9
August 1997 .....	76.7	67.3	68.7	86.6	71.0	73.7	95.6	77.5	79.7	81.7	69.9	71.5
September 1996 .....	72.4	61.4	64.1	82.4	64.8	69.4	90.2	71.1	74.9	77.8	63.6	67.0
Arkansas												
September 1997 .....	77.1	W	63.8	85.6	W	68.1	95.7	—	72.6	80.6	W	65.6
August 1997 .....	78.5	—	69.7	87.2	—	73.7	97.5	W	78.4	82.2	W	71.5
September 1996 .....	75.9	W	64.2	84.1	W	69.3	94.7	—	74.8	79.5	W	66.2
Louisiana												
September 1997 .....	76.8	69.6	62.4	87.5	W	69.2	96.1	78.4	72.4	82.0	70.5	65.3
August 1997 .....	76.3	W	67.3	87.2	W	73.4	96.0	W	76.7	81.6	W	70.1
September 1996 .....	75.3	63.0	61.8	86.3	W	69.0	93.5	W	72.6	81.5	W	64.5
Mississippi												
September 1997 .....	76.4	62.8	61.7	86.1	W	66.7	95.3	W	72.6	80.4	64.6	63.8
August 1997 .....	76.2	67.1	66.8	85.9	W	72.3	96.0	74.5	75.4	80.3	68.5	68.8
September 1996 .....	76.8	62.7	62.8	87.4	66.1	68.6	96.6	70.7	73.3	81.2	64.5	65.3
New Mexico												
September 1997 .....	87.5	75.2	72.5	95.5	W	76.9	105.1	W	81.7	90.4	76.3	74.0
August 1997 .....	86.7	73.8	71.3	94.8	W	75.8	104.4	W	80.7	89.6	74.8	72.9
September 1996 .....	87.2	74.8	74.4	95.6	—	79.4	106.7	W	84.3	90.2	76.2	75.9
Texas												
September 1997 .....	78.1	62.1	62.2	89.2	W	70.3	96.9	74.6	73.4	83.0	62.7	63.8
August 1997 .....	78.0	64.5	66.3	89.0	69.6	74.1	96.8	75.8	77.4	82.8	65.6	68.0
September 1996 .....	75.9	65.6	62.3	87.0	64.6	70.0	94.4	74.1	72.5	81.0	66.7	64.1
PAD District IV												
September 1997 .....	84.9	77.6	76.4	97.9	W	81.4	107.4	88.0	86.8	90.7	79.1	78.6
August 1997 .....	85.2	74.2	75.7	98.1	78.9	80.8	107.7	83.1	85.9	91.0	75.7	78.0
September 1996 .....	84.4	76.0	77.2	96.6	80.6	82.2	105.8	85.7	87.3	90.2	78.6	79.3
Colorado												
September 1997 .....	84.3	72.3	72.4	98.4	—	77.5	108.0	W	81.9	90.4	72.8	74.4
August 1997 .....	85.1	73.4	74.9	99.2	—	79.6	109.1	W	83.9	91.3	74.5	76.9
September 1996 .....	83.7	W	72.7	96.8	—	78.0	105.9	W	81.8	89.6	75.1	74.7

See footnotes at end of table.

**Table 35. Refiner Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular			Midgrade			Premium			All Grades		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>	
Idaho												
September 1997 .....	87.2	W	81.5	94.7	W	86.1	102.3	W	91.6	89.1	W	83.2
August 1997 .....	84.4	W	77.8	93.5	W	82.7	99.4	W	87.9	86.5	W	79.5
September 1996 .....	87.4	W	81.0	96.0	W	85.5	102.2	W	91.1	89.8	W	82.6
Montana												
September 1997 .....	W	W	77.3	W	—	82.2	W	W	89.1	W	W	80.1
August 1997 .....	W	W	75.8	W	—	W	W	W	87.8	W	W	78.8
September 1996 .....	W	W	81.0	W	—	W	W	W	94.0	W	W	83.3
Utah												
September 1997 .....	86.3	W	77.9	96.7	W	83.7	106.3	W	88.2	92.1	78.7	80.5
August 1997 .....	85.1	W	75.5	95.4	W	81.3	105.2	86.2	85.6	91.1	75.3	78.2
September 1996 .....	85.7	75.7	78.8	95.9	80.6	84.4	105.8	85.6	89.0	91.9	78.5	81.5
Wyoming												
September 1997 .....	89.4	W	76.0	W	—	82.0	105.6	W	85.8	92.6	82.6	77.8
August 1997 .....	89.4	76.3	75.7	W	W	80.8	105.1	79.3	85.3	92.7	77.9	77.6
September 1996 .....	89.0	75.5	78.1	W	—	80.1	106.2	W	88.1	92.2	79.6	79.8
PAD District V												
September 1997 .....	94.7	86.4	85.4	104.2	NA	93.9	115.1	W	99.9	98.6	NA	88.5
August 1997 .....	88.2	79.8	78.9	97.4	NA	86.7	108.5	NA	92.2	92.3	NA	82.0
September 1996 .....	88.1	80.8	76.4	94.8	90.1	83.2	105.7	96.4	89.7	91.5	84.6	79.3
Alaska												
September 1997 .....	120.6	W	84.7	W	—	W	134.5	W	100.2	122.5	W	86.2
August 1997 .....	122.0	W	84.9	W	—	99.6	139.1	W	100.6	123.9	W	86.6
September 1996 .....	120.7	W	88.2	W	—	108.9	134.9	W	104.5	121.3	W	90.4
Arizona												
September 1997 .....	93.9	83.5	82.6	103.9	W	89.7	113.3	W	94.9	97.3	85.3	85.1
August 1997 .....	87.6	76.2	75.1	97.4	W	81.9	106.6	W	87.8	91.2	78.5	77.7
September 1996 .....	93.3	82.1	79.0	101.7	W	87.3	109.1	W	93.1	96.7	84.8	81.6
California												
September 1997 .....	NA	NA	86.5	103.9	NA	94.7	114.5	W	100.9	NA	NA	89.8
August 1997 .....	NA	NA	79.7	97.0	NA	87.6	107.4	W	93.4	NA	NA	83.1
September 1996 .....	82.9	80.7	74.4	91.4	90.0	81.1	101.2	97.4	87.7	86.9	84.9	77.5
Hawaii												
September 1997 .....	114.5	W	90.3	121.5	W	107.3	129.1	W	112.9	119.2	W	98.0
August 1997 .....	112.5	W	97.7	119.1	W	105.8	127.3	W	110.1	117.1	W	102.3
September 1996 .....	117.5	84.7	100.4	121.8	W	109.7	131.6	W	116.4	121.5	86.8	106.0
Nevada												
September 1997 .....	88.6	89.0	83.0	99.6	—	87.7	109.5	—	95.2	93.3	89.0	85.3
August 1997 .....	81.8	79.7	72.6	92.0	—	75.5	102.0	—	84.3	86.7	79.7	74.9
September 1996 .....	85.0	W	76.4	90.9	—	82.1	102.3	—	88.8	88.4	W	79.0
Oregon												
September 1997 .....	100.3	79.8	84.5	111.5	—	94.4	122.0	W	97.9	103.4	80.1	86.5
August 1997 .....	92.8	79.7	80.2	103.8	—	87.9	114.7	W	86.5	96.2	79.9	81.6
September 1996 .....	96.2	78.7	77.3	104.1	W	87.0	115.7	87.6	92.2	98.9	80.6	79.4
Washington												
September 1997 .....	90.5	83.2	81.8	102.1	W	90.4	112.0	W	95.8	94.2	83.9	84.5
August 1997 .....	83.2	75.7	76.0	94.8	W	84.3	105.5	W	89.9	87.4	76.7	78.8
September 1996 .....	94.5	76.3	80.8	103.4	W	89.4	114.4	W	93.9	97.6	76.8	83.5

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Sales to "other end users" are all end-user sales that were not made through company-operated retail outlets, e.g., sales to agricultural customers or utilities.

Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 36. Refiner Prices of Aviation Fuels and Kerosene by PAD District and State**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>United States</b>						
September 1997 .....	115.6	108.9	58.2	58.8	63.4	60.0
August 1997 .....	114.6	108.9	59.1	59.4	64.9	60.5
September 1996 .....	114.3	106.8	71.8	71.6	76.4	75.6
<b>PAD District I</b>						
September 1997 .....	116.1	107.4	57.6	59.1	72.7	60.5
August 1997 .....	115.3	108.5	59.4	60.4	W	61.8
September 1996 .....	111.6	104.3	69.5	71.2	83.6	75.2
<b>Subdistrict IA</b>						
September 1997 .....	W	109.6	60.5	64.6	W	63.6
August 1997 .....	W	108.3	62.6	NA	W	65.1
September 1996 .....	W	107.6	72.6	75.7	87.2	NA
<b>Connecticut</b>						
September 1997 .....	W	111.4	61.0	W	W	W
August 1997 .....	W	114.2	62.7	64.1	—	W
September 1996 .....	W	106.2	70.8	73.1	W	W
<b>Maine</b>						
September 1997 .....	W	—	W	66.7	—	63.3
August 1997 .....	W	W	W	69.8	—	65.1
September 1996 .....	W	W	W	83.0	—	81.9
<b>Massachusetts</b>						
September 1997 .....	W	W	59.3	63.7	—	W
August 1997 .....	W	W	61.6	64.0	W	W
September 1996 .....	W	W	W	74.1	W	W
<b>New Hampshire</b>						
September 1997 .....	W	W	63.1	W	W	W
August 1997 .....	W	W	64.8	67.2	—	W
September 1996 .....	W	W	W	W	W	W
<b>Rhode Island</b>						
September 1997 .....	W	W	62.4	64.5	—	W
August 1997 .....	W	W	64.9	W	—	W
September 1996 .....	—	W	75.2	75.3	—	W
<b>Vermont</b>						
September 1997 .....	W	—	W	W	—	W
August 1997 .....	W	W	W	W	—	W
September 1996 .....	W	W	81.1	W	—	W
<b>Subdistrict IB</b>						
September 1997 .....	117.4	107.5	57.3	58.8	72.6	60.4
August 1997 .....	117.4	109.1	58.8	59.8	W	62.2
September 1996 .....	114.2	104.4	69.4	70.8	83.5	76.0
<b>Delaware</b>						
September 1997 .....	W	108.9	64.1	69.4	—	W
August 1997 .....	W	112.7	65.5	W	—	W
September 1996 .....	W	W	72.1	W	—	—
<b>District of Columbia</b>						
September 1997 .....	—	—	—	W	—	—
August 1997 .....	—	—	—	W	—	—
September 1996 .....	—	—	—	W	—	—
<b>Maryland</b>						
September 1997 .....	W	W	58.2	59.0	W	58.9
August 1997 .....	W	W	58.9	61.2	W	60.4
September 1996 .....	W	W	69.7	70.5	W	W
<b>New Jersey</b>						
September 1997 .....	W	108.7	57.3	58.3	W	58.5
August 1997 .....	W	107.4	58.4	58.5	W	60.4
September 1996 .....	W	105.0	69.2	70.2	W	72.7
<b>New York</b>						
September 1997 .....	W	NA	58.6	59.9	W	62.6
August 1997 .....	W	111.0	60.0	61.5	W	64.9
September 1996 .....	W	104.6	70.3	73.2	W	78.4
<b>Pennsylvania</b>						
September 1997 .....	116.0	108.0	56.5	58.3	80.9	61.8
August 1997 .....	115.1	111.3	59.0	60.2	82.4	65.6
September 1996 .....	112.2	103.5	69.3	70.2	88.8	76.9

See footnotes at end of table.

**Table 36. Refiner Prices of Aviation Fuels and Kerosene by PAD District and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Subdistrict IC</b>						
September 1997 .....	114.1	107.0	57.3	59.0	75.7	60.3
August 1997 .....	112.8	108.2	59.4	60.7	72.1	61.0
September 1996 .....	109.2	103.6	69.0	71.6	83.9	75.5
<b>Florida</b>						
September 1997 .....	109.5	103.5	57.7	59.7	W	59.6
August 1997 .....	107.8	103.4	59.9	61.4	W	60.4
September 1996 .....	105.7	100.5	69.3	73.0	NA	74.5
<b>Georgia</b>						
September 1997 .....	112.3	106.8	55.8	57.5	114.6	60.2
August 1997 .....	112.9	107.7	57.9	59.4	NA	60.7
September 1996 .....	109.6	103.3	67.9	70.0	NA	75.6
<b>North Carolina</b>						
September 1997 .....	W	112.5	57.3	60.0	74.3	60.1
August 1997 .....	W	115.8	58.9	61.5	W	60.6
September 1996 .....	W	108.7	68.7	70.9	W	75.1
<b>South Carolina</b>						
September 1997 .....	118.3	111.0	62.0	62.4	79.4	60.8
August 1997 .....	117.8	113.3	64.3	65.1	80.9	61.6
September 1996 .....	W	110.9	74.1	75.9	NA	75.6
<b>Virginia</b>						
September 1997 .....	W	W	57.4	59.9	W	60.2
August 1997 .....	W	W	59.5	61.8	W	61.0
September 1996 .....	W	107.7	69.5	72.8	W	75.7
<b>West Virginia</b>						
September 1997 .....	W	W	W	62.0	80.0	63.7
August 1997 .....	W	W	W	63.2	NA	W
September 1996 .....	W	W	W	76.9	88.2	79.7
<b>PAD District II</b>						
September 1997 .....	108.8	101.7	58.0	59.6	W	61.2
August 1997 .....	107.7	104.6	60.0	60.9	W	61.0
September 1996 .....	107.8	99.6	70.6	72.6	W	77.6
<b>Illinois</b>						
September 1997 .....	W	W	56.2	59.8	74.6	56.0
August 1997 .....	W	W	58.6	60.7	69.1	W
September 1996 .....	W	W	69.1	72.0	97.5	74.8
<b>Indiana</b>						
September 1997 .....	W	103.7	57.4	59.5	W	61.1
August 1997 .....	W	104.8	59.3	59.0	W	62.1
September 1996 .....	W	106.5	71.1	70.9	W	78.5
<b>Iowa</b>						
September 1997 .....	W	103.0	61.3	61.4	—	70.1
August 1997 .....	W	105.2	64.0	64.2	—	69.0
September 1996 .....	W	W	75.3	77.2	—	86.0
<b>Kansas</b>						
September 1997 .....	W	W	62.2	62.2	—	74.6
August 1997 .....	W	W	W	64.2	—	76.4
September 1996 .....	W	102.5	W	76.1	—	79.0
<b>Kentucky</b>						
September 1997 .....	115.8	W	59.4	60.9	81.0	63.9
August 1997 .....	W	W	61.5	62.6	W	64.5
September 1996 .....	W	88.5	70.6	W	NA	78.7
<b>Michigan</b>						
September 1997 .....	109.2	90.0	58.6	59.8	NA	61.3
August 1997 .....	W	97.8	60.0	61.9	99.5	60.5
September 1996 .....	W	W	70.7	72.5	NA	76.0
<b>Minnesota</b>						
September 1997 .....	W	NA	60.0	60.6	W	68.1
August 1997 .....	W	W	NA	63.5	W	70.8
September 1996 .....	W	W	70.9	NA	W	84.5
<b>Missouri</b>						
September 1997 .....	W	W	57.9	60.0	—	W
August 1997 .....	W	W	60.2	59.2	—	66.2
September 1996 .....	W	103.7	72.5	76.9	—	80.1

See footnotes at end of table.

**Table 36. Refiner Prices of Aviation Fuels and Kerosene by PAD District and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Nebraska</b>						
September 1997 .....	W	W	57.9	63.9	—	W
August 1997 .....	W	W	60.2	65.7	—	—
September 1996 .....	W	W	71.8	76.9	—	W
<b>North Dakota</b>						
September 1997 .....	W	W	65.2	69.4	—	W
August 1997 .....	W	W	68.2	71.1	—	—
September 1996 .....	W	W	78.8	82.5	—	W
<b>Ohio</b>						
September 1997 .....	W	100.2	58.7	57.8	73.6	61.7
August 1997 .....	112.1	102.2	60.6	60.2	71.5	62.2
September 1996 .....	W	99.1	70.9	71.5	NA	79.0
<b>Oklahoma</b>						
September 1997 .....	104.0	103.7	57.8	58.2	—	W
August 1997 .....	W	105.4	59.7	58.9	—	69.7
September 1996 .....	W	102.3	70.7	71.9	—	71.5
<b>South Dakota</b>						
September 1997 .....	W	107.1	62.1	W	—	W
August 1997 .....	W	W	63.7	66.1	—	W
September 1996 .....	W	W	76.9	76.7	—	86.8
<b>Tennessee</b>						
September 1997 .....	W	106.0	57.3	60.7	W	62.0
August 1997 .....	W	109.5	58.3	64.1	W	60.6
September 1996 .....	109.5	105.0	69.4	72.8	W	77.0
<b>Wisconsin</b>						
September 1997 .....	—	104.3	58.5	60.2	W	63.6
August 1997 .....	W	107.2	59.1	62.9	—	63.9
September 1996 .....	W	W	70.2	74.6	W	81.0
<b>PAD District III</b>						
September 1997 .....	107.5	99.5	55.1	55.5	70.7	56.3
August 1997 .....	107.7	100.7	56.6	57.3	W	56.7
September 1996 .....	104.3	98.0	67.9	68.2	82.5	70.2
<b>Alabama</b>						
September 1997 .....	W	106.8	58.8	61.3	W	61.5
August 1997 .....	W	107.2	60.5	63.3	W	62.4
September 1996 .....	W	103.0	69.7	73.2	W	79.0
<b>Arkansas</b>						
September 1997 .....	W	W	60.8	61.3	—	W
August 1997 .....	W	W	62.8	58.6	—	W
September 1996 .....	W	W	75.1	73.9	—	W
<b>Louisiana</b>						
September 1997 .....	108.1	103.0	54.6	55.1	W	55.2
August 1997 .....	W	105.5	57.1	57.6	—	W
September 1996 .....	105.0	101.2	68.2	67.4	W	69.6
<b>Mississippi</b>						
September 1997 .....	W	W	54.4	54.6	W	62.0
August 1997 .....	W	108.3	57.0	57.5	W	W
September 1996 .....	W	W	67.1	67.1	W	77.0
<b>New Mexico</b>						
September 1997 .....	W	W	60.9	NA	—	W
August 1997 .....	W	W	62.5	NA	—	W
September 1996 .....	W	W	74.7	74.5	—	—
<b>Texas</b>						
September 1997 .....	105.5	96.5	55.1	55.5	W	56.3
August 1997 .....	106.9	97.1	56.3	57.1	W	56.6
September 1996 .....	101.5	96.0	67.6	68.4	W	70.0
<b>PAD District IV</b>						
September 1997 .....	114.7	108.4	67.4	67.4	—	71.8
August 1997 .....	112.1	110.3	67.6	68.6	—	73.5
September 1996 .....	113.6	105.6	80.1	84.4	—	87.4
<b>Colorado</b>						
September 1997 .....	W	W	58.9	NA	—	68.5
August 1997 .....	W	W	58.9	NA	—	69.2
September 1996 .....	108.6	103.7	72.2	74.5	—	84.3

See footnotes at end of table.

**Table 36. Refiner Prices of Aviation Fuels and Kerosene by PAD District and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Idaho</b>						
September 1997 .....	W	W	78.2	75.5	—	W
August 1997 .....	W	W	77.7	75.0	—	W
September 1996 .....	W	W	W	88.1	—	W
<b>Montana</b>						
September 1997 .....	W	—	76.0	78.4	—	W
August 1997 .....	W	W	75.5	77.8	—	W
September 1996 .....	W	W	78.4	80.7	—	W
<b>Utah</b>						
September 1997 .....	W	106.1	73.4	78.5	—	W
August 1997 .....	W	106.6	73.7	78.7	—	W
September 1996 .....	W	104.8	87.6	88.1	—	W
<b>Wyoming</b>						
September 1997 .....	W	W	75.8	W	—	—
August 1997 .....	W	W	76.2	W	—	W
September 1996 .....	W	103.3	81.9	W	—	—
<b>PAD District V</b>						
September 1997 .....	126.9	122.2	60.3	63.2	NA	NA
August 1997 .....	122.5	118.4	59.5	61.8	W	NA
September 1996 .....	128.6	120.6	76.3	76.0	W	89.1
<b>Alaska</b>						
September 1997 .....	W	129.0	63.1	71.9	—	W
August 1997 .....	W	128.4	62.5	67.8	—	—
September 1996 .....	W	132.9	78.5	80.8	—	—
<b>Arizona</b>						
September 1997 .....	W	112.9	60.8	NA	—	W
August 1997 .....	W	113.6	60.8	NA	W	W
September 1996 .....	113.7	110.1	77.6	77.1	—	—
<b>California</b>						
September 1997 .....	125.1	117.9	59.6	NA	—	NA
August 1997 .....	119.7	113.6	58.7	59.2	—	NA
September 1996 .....	123.0	114.9	75.4	76.1	W	80.1
<b>Hawaii</b>						
September 1997 .....	—	W	62.8	W	—	—
August 1997 .....	—	W	62.2	W	—	—
September 1996 .....	W	W	80.2	W	—	—
<b>Nevada</b>						
September 1997 .....	W	113.3	60.8	63.8	—	W
August 1997 .....	W	110.5	60.9	64.2	—	—
September 1996 .....	W	106.4	78.6	80.1	—	—
<b>Oregon</b>						
September 1997 .....	W	W	59.9	63.5	NA	NA
August 1997 .....	W	W	59.3	63.4	NA	NA
September 1996 .....	W	W	79.1	81.7	—	NA
<b>Washington</b>						
September 1997 .....	W	W	59.4	66.3	—	81.5
August 1997 .....	W	W	58.6	65.6	—	77.3
September 1996 .....	W	W	75.2	79.5	—	93.6

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Notes: PAD District and U.S. averages represent data for all States. In certain PAD Districts, however, prices are not shown for every State.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."



**Table 37. Refiner Prices of Distillate Fuels by PAD District and State**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	No. 1 Distillate		No. 2 Distillate <sup>a</sup>		No. 4 Fuel <sup>b</sup>	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>United States</b>						
September 1997 .....	61.1	67.2	60.3	57.0	51.1	54.1
August 1997 .....	61.8	67.3	61.5	58.1	51.6	52.6
September 1996 .....	77.5	83.3	72.8	71.0	58.5	57.2
<b>PAD District I</b>						
September 1997 .....	62.3	61.9	59.0	54.9	W	52.0
August 1997 .....	69.6	62.4	60.6	56.4	W	51.1
September 1996 .....	82.4	74.8	72.0	69.2	63.7	57.4
<b>Subdistrict IA</b>						
September 1997 .....	W	W	59.2	56.0	W	W
August 1997 .....	—	W	61.6	57.4	W	W
September 1996 .....	W	82.7	71.6	69.5	W	W
<b>Connecticut</b>						
September 1997 .....	W	W	58.6	56.1	W	W
August 1997 .....	—	W	60.3	57.1	W	W
September 1996 .....	—	W	72.7	69.6	W	W
<b>Maine</b>						
September 1997 .....	—	W	56.8	56.9	—	—
August 1997 .....	—	—	58.0	58.9	—	—
September 1996 .....	—	W	70.1	70.4	—	—
<b>Massachusetts</b>						
September 1997 .....	—	—	59.6	56.2	W	—
August 1997 .....	—	—	64.1	56.8	W	—
September 1996 .....	—	—	71.0	69.8	W	W
<b>New Hampshire</b>						
September 1997 .....	—	—	62.6	58.0	—	—
August 1997 .....	—	—	68.1	61.5	—	—
September 1996 .....	W	—	76.4	69.5	W	—
<b>Rhode Island</b>						
September 1997 .....	—	W	58.6	54.9	—	—
August 1997 .....	—	—	60.0	57.2	—	—
September 1996 .....	—	W	73.7	68.6	—	—
<b>Vermont</b>						
September 1997 .....	—	W	60.0	57.9	W	—
August 1997 .....	—	—	60.3	59.1	W	—
September 1996 .....	—	W	63.3	66.7	W	—
<b>Subdistrict IB</b>						
September 1997 .....	70.5	60.3	60.0	54.4	W	52.1
August 1997 .....	69.6	62.4	61.5	56.1	W	51.6
September 1996 .....	83.5	73.9	73.3	69.0	W	60.4
<b>Delaware</b>						
September 1997 .....	—	—	58.9	W	W	—
August 1997 .....	—	—	60.5	W	W	—
September 1996 .....	—	—	71.8	W	W	—
<b>District of Columbia</b>						
September 1997 .....	—	—	W	55.0	—	—
August 1997 .....	—	—	W	62.1	—	—
September 1996 .....	—	—	W	71.3	W	—
<b>Maryland</b>						
September 1997 .....	W	W	56.3	55.8	W	W
August 1997 .....	W	—	57.9	56.9	W	W
September 1996 .....	W	W	70.8	69.8	W	W
<b>New Jersey</b>						
September 1997 .....	—	W	58.8	53.7	W	W
August 1997 .....	—	62.0	60.8	55.2	W	51.1
September 1996 .....	—	W	72.3	68.0	W	58.7
<b>New York</b>						
September 1997 .....	W	W	64.0	55.3	W	52.6
August 1997 .....	W	W	64.9	56.8	W	52.8
September 1996 .....	W	W	74.5	69.8	W	61.2
<b>Pennsylvania</b>						
September 1997 .....	W	61.9	61.2	54.7	W	—
August 1997 .....	W	64.3	63.1	56.2	W	—
September 1996 .....	W	W	74.1	69.7	W	—

See footnotes at end of table.

**Table 37. Refiner Prices of Distillate Fuels by PAD District and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	No. 1 Distillate		No. 2 Distillate <sup>a</sup>		No. 4 Fuel <sup>b</sup>	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Subdistrict IC</b>						
September 1997 .....	W	W	58.4	55.2	54.7	W
August 1997 .....	—	—	60.0	56.6	54.1	W
September 1996 .....	W	76.1	71.2	69.4	61.2	W
<b>Florida</b>						
September 1997 .....	W	—	59.2	55.6	W	—
August 1997 .....	—	—	61.0	56.9	W	—
September 1996 .....	—	—	71.1	69.6	W	—
<b>Georgia</b>						
September 1997 .....	—	—	58.8	54.7	W	—
August 1997 .....	—	—	60.5	55.9	W	—
September 1996 .....	—	—	70.8	69.0	W	—
<b>North Carolina</b>						
September 1997 .....	—	W	56.6	55.2	W	—
August 1997 .....	—	—	58.4	56.5	W	—
September 1996 .....	—	W	71.6	69.2	W	—
<b>South Carolina</b>						
September 1997 .....	—	—	59.8	55.1	W	—
August 1997 .....	—	—	61.0	56.6	—	—
September 1996 .....	—	—	72.6	69.4	—	—
<b>Virginia</b>						
September 1997 .....	—	W	56.2	55.3	W	W
August 1997 .....	—	—	57.4	56.8	W	W
September 1996 .....	—	W	70.0	69.4	W	W
<b>West Virginia</b>						
September 1997 .....	W	—	59.9	56.0	—	—
August 1997 .....	—	—	59.9	57.7	—	—
September 1996 .....	W	W	73.1	71.6	—	—
<b>PAD District II</b>						
September 1997 .....	W	62.3	58.4	56.7	52.1	NA
August 1997 .....	60.5	62.3	59.7	57.8	52.8	W
September 1996 .....	79.9	81.3	72.2	71.9	62.3	W
<b>Illinois</b>						
September 1997 .....	W	58.9	57.5	53.9	—	—
August 1997 .....	W	60.1	58.9	55.2	—	—
September 1996 .....	W	78.7	72.5	70.4	—	—
<b>Indiana</b>						
September 1997 .....	W	59.2	57.0	55.3	W	—
August 1997 .....	W	60.4	58.2	55.9	W	—
September 1996 .....	W	77.2	71.0	71.0	W	—
<b>Iowa</b>						
September 1997 .....	W	63.8	59.6	59.3	—	—
August 1997 .....	W	64.0	61.0	60.1	—	—
September 1996 .....	W	81.9	75.8	74.2	—	—
<b>Kansas</b>						
September 1997 .....	—	59.5	61.3	58.0	—	—
August 1997 .....	—	63.0	63.8	59.2	—	—
September 1996 .....	W	77.1	77.9	72.4	—	—
<b>Kentucky</b>						
September 1997 .....	—	W	58.4	56.4	W	—
August 1997 .....	—	—	59.9	57.7	W	—
September 1996 .....	W	W	72.0	70.2	W	—
<b>Michigan</b>						
September 1997 .....	W	59.6	58.0	55.9	—	—
August 1997 .....	W	61.5	59.6	56.9	—	—
September 1996 .....	W	79.6	72.7	72.0	—	—
<b>Minnesota</b>						
September 1997 .....	W	64.8	62.5	60.0	W	NA
August 1997 .....	W	64.3	63.4	61.3	W	W
September 1996 .....	W	83.2	76.0	75.3	—	W
<b>Missouri</b>						
September 1997 .....	W	63.9	59.4	56.5	—	—
August 1997 .....	W	65.5	61.5	57.9	—	—
September 1996 .....	W	80.2	74.9	71.4	—	—

See footnotes at end of table.

**Table 37. Refiner Prices of Distillate Fuels by PAD District and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	No. 1 Distillate		No. 2 Distillate <sup>a</sup>		No. 4 Fuel <sup>b</sup>	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Nebraska</b>						
September 1997 .....	—	65.1	59.9	59.6	—	—
August 1997 .....	—	65.7	56.2	61.0	—	—
September 1996 .....	83.0	80.5	76.6	73.7	—	—
<b>North Dakota</b>						
September 1997 .....	W	66.3	W	62.1	—	—
August 1997 .....	W	67.0	W	63.5	—	—
September 1996 .....	W	86.5	W	77.9	—	—
<b>Ohio</b>						
September 1997 .....	W	59.3	60.1	55.8	W	—
August 1997 .....	W	60.6	61.4	57.2	W	—
September 1996 .....	W	78.2	74.1	72.0	W	—
<b>Oklahoma</b>						
September 1997 .....	W	W	57.3	56.3	—	—
August 1997 .....	—	W	58.1	57.6	—	—
September 1996 .....	W	78.1	65.3	70.3	—	—
<b>South Dakota</b>						
September 1997 .....	W	66.9	61.0	61.2	—	—
August 1997 .....	—	64.6	62.6	62.5	—	—
September 1996 .....	W	83.8	W	76.4	—	—
<b>Tennessee</b>						
September 1997 .....	—	—	56.9	55.0	W	—
August 1997 .....	—	—	58.6	56.4	W	—
September 1996 .....	—	—	70.9	69.3	W	—
<b>Wisconsin</b>						
September 1997 .....	W	61.6	57.6	56.2	W	—
August 1997 .....	W	61.5	59.1	57.3	W	—
September 1996 .....	80.9	79.9	73.7	71.7	W	—
<b>PAD District III</b>						
September 1997 .....	—	W	58.1	53.7	—	—
August 1997 .....	—	NA	59.7	54.9	W	W
September 1996 .....	—	72.8	69.2	66.7	—	W
<b>Alabama</b>						
September 1997 .....	—	—	56.9	54.6	—	—
August 1997 .....	—	—	58.6	55.8	—	—
September 1996 .....	—	—	70.1	68.7	—	—
<b>Arkansas</b>						
September 1997 .....	—	—	58.0	54.9	—	—
August 1997 .....	—	—	61.7	56.3	—	—
September 1996 .....	—	—	72.9	68.4	—	—
<b>Louisiana</b>						
September 1997 .....	—	—	59.3	52.4	—	—
August 1997 .....	—	—	60.1	53.6	—	—
September 1996 .....	—	W	66.8	65.4	—	—
<b>Mississippi</b>						
September 1997 .....	—	—	56.7	53.7	—	—
August 1997 .....	—	—	57.8	54.4	W	W
September 1996 .....	—	—	70.1	65.5	—	W
<b>New Mexico</b>						
September 1997 .....	—	74.1	75.5	63.3	—	—
August 1997 .....	—	74.0	75.8	61.9	—	—
September 1996 .....	—	83.4	71.5	73.3	—	—
<b>Texas</b>						
September 1997 .....	—	W	57.1	53.4	—	—
August 1997 .....	—	W	58.9	54.8	—	—
September 1996 .....	—	W	69.4	66.5	—	—
<b>PAD District IV</b>						
September 1997 .....	75.9	74.0	68.9	65.8	—	—
August 1997 .....	82.2	74.1	66.9	65.1	—	—
September 1996 .....	87.2	89.0	77.8	79.2	W	—
<b>Colorado</b>						
September 1997 .....	W	67.2	64.3	59.3	—	—
August 1997 .....	—	67.5	65.2	60.2	—	—
September 1996 .....	W	82.5	73.8	74.1	—	—

See footnotes at end of table.

**Table 37. Refiner Prices of Distillate Fuels by PAD District and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	No. 1 Distillate		No. 2 Distillate <sup>a</sup>		No. 4 Fuel <sup>b</sup>	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Idaho</b>						
September 1997 .....	W	82.7	73.4	73.5	—	—
August 1997 .....	W	77.8	68.2	69.0	—	—
September 1996 .....	W	95.5	81.1	85.1	—	—
<b>Montana</b>						
September 1997 .....	W	76.5	65.1	66.1	—	—
August 1997 .....	W	76.2	63.5	65.0	—	—
September 1996 .....	W	88.6	71.2	79.2	—	—
<b>Utah</b>						
September 1997 .....	—	81.6	74.4	71.9	—	—
August 1997 .....	—	79.7	69.2	69.0	—	—
September 1996 .....	W	95.7	82.9	82.5	W	—
<b>Wyoming</b>						
September 1997 .....	74.8	74.2	68.5	63.4	—	—
August 1997 .....	W	74.4	67.4	64.5	—	—
September 1996 .....	90.1	85.8	78.8	77.8	—	—
<b>PAD District V</b>						
September 1997 .....	62.3	78.0	66.7	67.5	W	61.7
August 1997 .....	63.2	72.0	67.8	67.2	W	53.3
September 1996 .....	71.8	87.4	78.2	78.7	W	59.4
<b>Alaska</b>						
September 1997 .....	W	78.0	71.6	71.7	W	W
August 1997 .....	W	71.9	75.1	68.0	W	W
September 1996 .....	W	86.3	75.9	76.9	W	W
<b>Arizona</b>						
September 1997 .....	—	—	67.6	62.8	—	—
August 1997 .....	—	—	67.2	62.1	—	—
September 1996 .....	—	—	78.1	73.2	—	—
<b>California</b>						
September 1997 .....	—	—	68.0	66.9	—	W
August 1997 .....	—	—	69.4	67.9	—	W
September 1996 .....	W	W	77.7	77.8	—	W
<b>Hawaii</b>						
September 1997 .....	—	—	W	79.5	—	—
August 1997 .....	—	—	W	76.8	—	—
September 1996 .....	—	—	W	84.2	—	—
<b>Nevada</b>						
September 1997 .....	—	—	71.8	68.1	—	—
August 1997 .....	—	—	70.4	66.2	—	—
September 1996 .....	W	—	82.5	78.7	—	—
<b>Oregon</b>						
September 1997 .....	—	NA	64.8	69.1	—	—
August 1997 .....	—	NA	67.9	67.6	—	—
September 1996 .....	W	97.0	85.5	82.2	—	—
<b>Washington</b>						
September 1997 .....	W	79.8	63.1	68.8	W	W
August 1997 .....	W	NA	64.3	66.3	W	W
September 1996 .....	W	94.1	83.0	81.1	W	W

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales of No. 2 fuel oil and high- and low-sulfur diesel fuels.

<sup>b</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Notes: PAD District and U.S. averages represent data for all States. In certain PAD Districts, however, prices are not shown for every State.

**Table 38. Propane (Consumer Grade) Prices by Sales Type and PAD District**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Sales to End Users							Sales for Resale
	Residential Consumers	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets	Petro- Chemical	Other End Users	Average	
United States								
September 1997 .....	88.5	84.2	80.4	68.4	37.6	68.0	78.0	40.3
August 1997 .....	87.4	84.8	79.2	67.1	36.9	71.2	78.4	38.4
September 1996 .....	90.7	85.0	71.4	69.7	43.8	69.5	78.4	45.8
PAD District I								
September 1997 .....	113.1	85.5	94.4	64.8	W	76.3	97.1	45.1
August 1997 .....	113.2	86.3	92.9	63.5	W	76.0	95.6	42.8
September 1996 .....	110.6	88.4	69.8	68.8	W	74.2	94.7	51.9
Subdistrict IA								
September 1997 .....	135.0	92.5	NA	61.1	—	121.0	127.4	51.8
August 1997 .....	134.8	91.7	NA	57.9	—	NA	125.4	48.7
September 1996 .....	124.7	93.3	63.0	70.1	—	121.8	107.3	56.6
Subdistrict IB								
September 1997 .....	118.4	89.8	80.3	69.5	—	87.2	105.5	44.0
August 1997 .....	122.2	92.7	80.5	70.7	W	NA	107.7	42.0
September 1996 .....	120.0	94.6	65.0	71.7	—	72.0	102.8	52.3
Subdistrict IC								
September 1997 .....	100.5	81.3	69.5	W	W	72.0	84.3	44.9
August 1997 .....	98.0	82.2	67.9	W	W	72.7	82.4	42.2
September 1996 .....	100.4	83.6	76.6	66.0	W	73.0	87.5	51.1
PAD District II								
September 1997 .....	73.8	78.6	75.9	67.8	W	64.6	72.4	40.5
August 1997 .....	74.3	79.3	75.8	64.1	W	67.1	73.2	38.6
September 1996 .....	78.6	76.4	79.7	66.1	48.3	65.2	75.2	45.6
PAD District III								
September 1997 .....	89.2	77.9	72.0	74.0	37.5	NA	59.6	38.7
August 1997 .....	89.3	77.1	71.8	74.3	36.8	71.5	60.4	36.6
September 1996 .....	92.1	81.7	68.4	71.9	43.5	72.4	62.5	43.8
PAD District IV								
September 1997 .....	70.1	85.8	56.4	63.2	—	73.8	70.7	37.9
August 1997 .....	67.2	79.1	54.2	62.4	—	72.6	67.2	35.5
September 1996 .....	78.4	79.6	63.6	65.1	—	76.1	76.2	43.6
PAD District V								
September 1997 .....	100.5	95.8	70.2	72.2	—	68.9	90.6	42.7
August 1997 .....	101.2	97.6	68.0	73.1	—	68.3	89.7	39.6
September 1996 .....	100.0	101.7	65.6	76.1	—	NA	91.1	49.1

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

**Table 39. No. 2 Distillate<sup>a</sup> Prices by Sales Type, PAD District, and Selected States<sup>b</sup>**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Sales to End Users						Sales for Resale
	Residential Consumers	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets <sup>c</sup>	Other End Users <sup>d</sup>	Average	
United States							
September 1997 .....	88.6	63.6	68.5	71.1	73.4	70.0	57.9
August 1997 .....	86.9	64.3	68.6	71.7	73.2	70.0	58.8
September 1996 .....	94.5	75.9	82.3	81.7	83.9	81.1	71.3
PAD District I							
September 1997 .....	88.9	63.8	67.4	70.1	68.6	71.2	56.2
August 1997 .....	86.7	64.9	67.5	71.0	67.4	70.5	57.5
September 1996 .....	94.4	74.6	80.2	79.4	78.5	81.0	69.5
Subdistrict IA							
September 1997 .....	87.0	68.1	73.0	80.5	64.8	78.5	58.5
August 1997 .....	85.6	69.1	75.0	80.4	65.2	77.5	59.8
September 1996 .....	93.7	78.7	85.0	88.1	79.2	87.0	69.7
Connecticut							
September 1997 .....	85.5	68.3	63.1	83.6	NA	77.8	58.4
August 1997 .....	84.5	69.0	66.1	84.6	68.0	76.7	59.4
September 1996 .....	92.5	76.8	78.3	89.3	85.1	86.2	68.0
Maine							
September 1997 .....	87.2	72.0	NA	78.9	NA	79.0	59.4
August 1997 .....	85.7	72.3	NA	NA	NA	NA	60.8
September 1996 .....	96.4	82.4	79.4	86.5	80.9	88.2	71.7
Massachusetts							
September 1997 .....	86.9	64.9	82.0	83.1	57.9	77.6	58.7
August 1997 .....	84.7	67.0	83.0	83.6	59.1	77.1	60.0
September 1996 .....	93.1	78.1	92.1	90.4	72.2	86.4	70.0
New Hampshire							
September 1997 .....	86.4	72.2	69.8	79.3	NA	79.6	58.4
August 1997 .....	85.3	71.1	72.0	79.2	NA	77.5	59.6
September 1996 .....	91.9	78.4	79.6	87.8	82.4	86.7	69.6
Rhode Island							
September 1997 .....	91.2	68.9	NA	80.2	65.3	81.8	56.7
August 1997 .....	91.0	67.5	66.1	81.6	NA	78.7	58.7
September 1996 .....	96.6	81.2	78.3	83.3	74.3	88.4	69.2
Vermont							
September 1997 .....	91.7	69.2	NA	80.5	71.3	80.9	61.0
August 1997 .....	92.7	70.2	69.7	80.8	78.2	80.6	61.0
September 1996 .....	94.4	78.7	85.2	87.2	91.8	88.7	72.9
Subdistrict IB							
September 1997 .....	90.7	64.0	68.5	70.6	67.9	72.9	55.5
August 1997 .....	87.8	65.0	68.9	71.6	68.2	72.0	56.9
September 1996 .....	95.2	74.9	83.7	80.5	80.0	83.0	69.1
Delaware							
September 1997 .....	NA	63.5	70.7	73.9	64.1	80.7	56.4
August 1997 .....	87.8	65.5	72.1	74.2	64.8	71.6	58.0
September 1996 .....	95.3	72.5	84.8	78.3	78.5	80.9	69.2
District of Columbia							
September 1997 .....	96.6	61.7	—	W	W	64.3	55.1
August 1997 .....	W	62.4	—	W	W	60.4	60.1
September 1996 .....	106.2	73.7	NA	W	75.6	78.6	69.0
Maryland							
September 1997 .....	94.5	63.8	65.2	72.4	60.9	69.9	57.2
August 1997 .....	93.8	64.7	65.7	71.1	64.0	69.2	58.2
September 1996 .....	99.3	73.5	76.9	77.3	77.4	78.6	70.3
New Jersey							
September 1997 .....	90.6	61.7	74.2	70.1	60.4	71.8	54.3
August 1997 .....	89.6	62.4	75.2	71.4	61.4	71.0	55.9
September 1996 .....	97.3	70.9	90.1	79.6	75.1	81.4	67.5
New York							
September 1997 .....	94.5	66.6	66.6	77.8	76.2	78.0	56.8
August 1997 .....	92.9	67.8	68.6	76.7	76.8	76.9	57.8
September 1996 .....	99.1	79.8	81.7	86.9	81.4	89.3	70.1

See footnotes at end of table.

**Table 39. No. 2 Distillate<sup>a</sup> Prices by Sales Type, PAD District, and Selected States<sup>b</sup>**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Sales to End Users						Sales for Resale
	Residential Consumers	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets <sup>c</sup>	Other End Users <sup>d</sup>	Average	
<b>Pennsylvania</b>							
September 1997 .....	82.8	62.0	65.6	69.0	71.6	68.9	55.8
August 1997 .....	80.7	63.3	65.8	70.5	73.4	69.6	57.2
September 1996 .....	88.9	75.4	81.8	78.8	81.1	80.7	70.4
<b>Subdistrict IC</b>							
September 1997 .....	86.3	62.3	66.4	68.8	69.5	67.2	55.9
August 1997 .....	85.0	63.6	66.4	69.8	67.3	67.5	57.2
September 1996 .....	92.9	72.9	77.0	78.1	77.7	76.9	69.8
<b>Virginia</b>							
September 1997 .....	85.2	61.0	61.1	68.8	76.8	68.0	56.0
August 1997 .....	85.2	62.3	61.7	70.2	75.6	68.7	57.6
September 1996 .....	92.6	74.9	75.7	77.3	72.7	77.5	70.0
<b>West Virginia</b>							
September 1997 .....	87.5	61.6	63.5	NA	70.0	68.4	58.0
August 1997 .....	85.0	63.1	65.4	80.0	61.0	68.5	59.6
September 1996 .....	94.9	76.1	80.2	81.2	79.2	80.0	72.9
<b>PAD District II</b>							
September 1997 .....	84.6	61.8	66.6	69.8	75.5	68.6	57.3
August 1997 .....	84.4	62.2	67.8	71.1	76.0	69.0	58.4
September 1996 .....	92.2	74.2	81.2	80.5	86.5	79.7	72.3
<b>Illinois</b>							
September 1997 .....	77.3	61.9	60.2	73.3	77.3	68.4	54.6
August 1997 .....	81.2	62.8	60.8	75.1	79.4	69.6	56.0
September 1996 .....	87.1	76.3	86.1	82.3	86.3	81.4	70.6
<b>Indiana</b>							
September 1997 .....	80.2	60.5	64.9	67.2	75.8	65.8	56.3
August 1997 .....	83.6	60.9	66.1	69.4	76.3	66.8	56.7
September 1996 .....	92.8	72.0	82.1	79.7	89.8	77.3	71.1
<b>Michigan</b>							
September 1997 .....	88.3	64.7	66.5	73.9	69.7	70.2	57.1
August 1997 .....	87.4	65.3	67.3	75.6	70.8	70.6	57.9
September 1996 .....	98.6	78.0	76.8	80.9	82.2	81.1	72.7
<b>Minnesota</b>							
September 1997 .....	84.7	67.8	75.3	77.7	81.5	77.3	61.0
August 1997 .....	86.0	67.5	76.7	78.2	79.0	75.9	62.2
September 1996 .....	91.8	78.1	84.8	86.3	89.1	85.7	75.5
<b>Ohio</b>							
September 1997 .....	84.3	61.1	66.4	68.1	70.3	66.1	56.7
August 1997 .....	81.7	61.5	67.4	69.8	70.4	66.4	58.0
September 1996 .....	92.8	73.6	79.1	80.6	85.2	78.7	72.9
<b>Wisconsin</b>							
September 1997 .....	87.4	65.1	68.7	71.5	75.7	71.1	56.8
August 1997 .....	86.5	65.5	72.2	72.1	79.8	71.9	57.8
September 1996 .....	91.1	77.0	77.8	82.4	85.2	81.0	72.8
<b>PAD District III</b>							
September 1997 .....	72.2	58.7	65.0	67.1	68.5	64.3	54.2
August 1997 .....	72.8	59.9	65.6	67.5	69.7	65.5	55.4
September 1996 .....	84.0	70.2	75.7	78.3	78.0	74.9	67.4
<b>PAD District IV</b>							
September 1997 .....	90.0	70.8	78.9	80.4	82.8	77.6	67.0
August 1997 .....	88.2	69.1	77.6	77.8	82.1	76.3	66.2
September 1996 .....	98.8	80.2	88.2	88.6	92.3	86.6	80.8
<b>Idaho</b>							
September 1997 .....	91.3	78.7	85.6	82.8	87.4	84.5	74.3
August 1997 .....	90.5	73.4	83.8	79.6	86.2	82.0	70.2
September 1996 .....	101.3	88.6	92.2	97.0	94.1	93.8	85.7

See footnotes at end of table.

**Table 39. No. 2 Distillate<sup>a</sup> Prices by Sales Type, PAD District, and Selected States<sup>b</sup>**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Sales to End Users						Sales for Resale
	Residential Consumers	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets <sup>C</sup>	Other End Users <sup>d</sup>	Average	
PAD District V							
September 1997 .....	103.8	69.4	75.0	84.6	75.8	75.0	67.4
August 1997 .....	101.6	70.2	73.7	82.3	75.0	74.6	67.0
September 1996 .....	105.5	86.5	90.6	93.1	90.6	89.7	79.4
Alaska							
September 1997 .....	96.7	NA	87.9	106.7	96.2	90.9	76.1
August 1997 .....	96.4	84.1	86.4	108.5	96.6	89.7	71.6
September 1996 .....	95.7	96.9	87.2	NA	100.8	96.4	79.5
Oregon							
September 1997 .....	101.7	72.7	80.4	86.2	81.5	78.6	70.5
August 1997 .....	99.2	73.4	76.5	80.4	78.7	76.6	68.8
September 1996 .....	109.1	89.9	92.7	94.3	90.9	92.2	82.0
Washington							
September 1997 .....	111.5	71.3	78.3	88.3	92.5	79.6	69.8
August 1997 .....	108.8	71.9	76.4	83.4	89.6	78.6	67.3
September 1996 .....	115.8	87.6	90.4	98.6	98.5	92.4	81.5

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales of No. 2 fuel oil and high- and low-sulfur diesel fuels.

<sup>b</sup> Some State data are not sufficient for publication individually, but are used in calculating the PAD District average.

<sup>c</sup> Includes low-sulfur diesel fuel only with the exception of Alaska, which currently is exempt from the Clean Air Act's diesel fuel sulfur content requirement.

<sup>d</sup> All end-user sales not included in the other end-user categories shown, e.g., sales to agricultural customers or utilities.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."



**Table 40. No. 2 Diesel Fuel Prices by Sales Type, PAD District, and Selected States**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Sales to End Users					Sales for Resale
	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets <sup>a</sup>	Other End Users <sup>b</sup>	Average	
United States						
September 1997 .....	63.5	69.3	71.1	73.9	68.6	58.7
August 1997 .....	64.3	69.2	71.7	73.8	69.2	59.6
September 1996 .....	76.1	82.8	81.7	84.1	80.0	72.3
PAD District I						
September 1997 .....	63.0	68.4	70.1	69.8	66.7	56.5
August 1997 .....	64.2	68.1	71.0	69.0	67.6	57.9
September 1996 .....	73.9	81.3	79.4	78.5	77.1	70.3
Subdistrict IA						
September 1997 .....	66.7	78.8	80.5	68.0	71.1	57.9
August 1997 .....	68.4	79.9	80.4	NA	72.4	59.7
September 1996 .....	78.0	92.8	88.1	80.5	81.8	71.4
Connecticut						
September 1997 .....	67.2	64.0	83.6	69.6	68.1	56.9
August 1997 .....	68.3	66.2	84.6	68.4	69.3	58.8
September 1996 .....	76.9	79.4	89.3	82.2	78.8	71.0
Maine						
September 1997 .....	74.3	74.3	78.9	NA	76.1	59.5
August 1997 .....	75.3	77.7	NA	NA	NA	60.6
September 1996 .....	83.8	82.1	86.5	80.2	83.5	72.9
Massachusetts						
September 1997 .....	64.4	86.3	83.1	63.7	70.4	57.6
August 1997 .....	66.7	86.8	83.6	63.3	73.0	59.4
September 1996 .....	76.8	109.5	90.4	78.5	82.3	71.9
New Hampshire						
September 1997 .....	67.1	78.9	79.3	NA	74.3	57.7
August 1997 .....	68.7	79.8	79.2	NA	74.5	60.9
September 1996 .....	79.5	89.8	87.8	83.2	84.7	71.7
Rhode Island						
September 1997 .....	66.1	NA	80.2	64.6	67.3	57.7
August 1997 .....	66.2	62.8	81.6	NA	66.4	59.1
September 1996 .....	81.1	74.0	83.3	74.4	78.2	68.7
Vermont						
September 1997 .....	67.4	NA	80.5	70.3	71.3	63.4
August 1997 .....	69.0	71.7	80.8	76.3	72.7	62.8
September 1996 .....	77.4	85.9	87.2	93.0	83.2	75.7
Subdistrict IB						
September 1997 .....	63.3	70.4	70.6	70.8	66.7	56.7
August 1997 .....	64.4	70.4	71.6	72.0	67.8	58.2
September 1996 .....	74.3	85.4	80.5	80.5	77.7	70.4
Delaware						
September 1997 .....	63.6	71.2	73.9	69.1	67.8	56.5
August 1997 .....	65.5	72.8	74.2	70.3	69.3	58.3
September 1996 .....	72.0	85.0	78.3	84.1	77.4	69.9
District of Columbia						
September 1997 .....	58.9	—	W	W	62.1	60.5
August 1997 .....	60.4	—	W	W	63.5	62.2
September 1996 .....	72.3	NA	W	76.5	74.1	73.3
Maryland						
September 1997 .....	63.0	64.4	72.4	70.1	65.2	57.9
August 1997 .....	64.3	65.4	71.1	69.8	66.1	59.0
September 1996 .....	73.2	77.3	77.3	77.5	74.9	70.8
New Jersey						
September 1997 .....	61.1	NA	70.1	60.0	66.4	56.1
August 1997 .....	62.2	NA	71.4	NA	67.6	57.5
September 1996 .....	70.8	94.4	79.6	74.9	75.5	68.9
New York						
September 1997 .....	65.9	68.6	77.8	76.5	69.0	58.8
August 1997 .....	67.1	70.6	76.7	79.2	70.0	60.4
September 1996 .....	78.6	85.4	86.9	82.1	81.7	71.9

See footnotes at end of table.

**Table 40. No. 2 Diesel Fuel Prices by Sales Type, PAD District, and Selected States**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Sales to End Users					Sales for Resale
	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets <sup>a</sup>	Other End Users <sup>b</sup>	Average	
<b>Pennsylvania</b>						
September 1997 .....	61.8	65.6	69.0	72.3	65.7	56.2
August 1997 .....	62.8	66.1	70.5	73.3	66.9	57.6
September 1996 .....	75.2	82.0	78.8	81.4	77.9	71.2
<b>Subdistrict IC</b>						
September 1997 .....	61.7	67.0	68.8	69.7	66.1	56.0
August 1997 .....	63.0	66.7	69.8	68.3	66.8	57.3
September 1996 .....	72.7	77.5	78.1	77.5	76.0	70.0
<b>Virginia</b>						
September 1997 .....	60.8	62.1	68.8	75.3	65.8	56.4
August 1997 .....	62.0	62.7	70.2	75.4	67.1	57.9
September 1996 .....	74.7	75.7	77.3	72.2	75.7	70.4
<b>West Virginia</b>						
September 1997 .....	60.8	64.7	NA	70.1	68.3	58.6
August 1997 .....	62.4	66.7	80.0	72.4	69.9	60.3
September 1996 .....	76.0	81.1	81.2	82.6	79.6	73.2
<b>PAD District II</b>						
September 1997 .....	62.0	67.9	69.8	76.1	68.5	57.7
August 1997 .....	62.4	69.0	71.1	76.2	69.1	58.9
September 1996 .....	74.6	81.6	80.5	86.7	79.6	72.7
<b>Illinois</b>						
September 1997 .....	61.9	66.0	73.3	77.8	69.1	55.8
August 1997 .....	62.8	66.1	75.1	79.8	70.5	57.0
September 1996 .....	76.7	86.7	82.3	86.3	81.8	70.9
<b>Indiana</b>						
September 1997 .....	61.5	68.8	67.2	77.5	66.3	56.7
August 1997 .....	61.6	69.7	69.4	76.8	67.1	57.6
September 1996 .....	72.5	84.3	79.7	90.4	77.6	71.6
<b>Michigan</b>						
September 1997 .....	64.1	67.1	73.9	72.4	68.6	57.4
August 1997 .....	64.9	67.6	75.6	73.1	69.7	58.2
September 1996 .....	77.4	76.8	80.9	82.6	79.3	73.5
<b>Minnesota</b>						
September 1997 .....	69.6	77.3	77.7	81.5	77.7	61.3
August 1997 .....	70.3	78.8	78.2	79.2	77.0	62.5
September 1996 .....	79.9	82.2	86.3	89.2	85.7	75.9
<b>Ohio</b>						
September 1997 .....	60.7	66.5	68.1	71.5	65.2	57.1
August 1997 .....	61.4	67.4	69.8	70.9	65.9	58.5
September 1996 .....	73.5	79.2	80.6	87.0	77.8	73.7
<b>Wisconsin</b>						
September 1997 .....	64.9	69.0	71.5	78.5	69.9	57.1
August 1997 .....	65.3	73.3	72.1	80.0	71.0	58.1
September 1996 .....	77.1	78.6	82.4	85.3	80.3	73.1
<b>PAD District III</b>						
September 1997 .....	59.2	65.2	67.1	68.6	64.6	54.6
August 1997 .....	60.4	65.8	67.5	69.8	65.8	55.9
September 1996 .....	70.4	75.7	78.3	78.0	75.0	68.0
<b>PAD District IV</b>						
September 1997 .....	70.7	78.9	80.4	82.8	77.6	67.0
August 1997 .....	69.2	77.6	77.8	82.1	76.4	66.2
September 1996 .....	79.9	88.2	88.6	92.3	86.4	80.8
<b>Idaho</b>						
September 1997 .....	78.1	85.6	82.8	87.4	84.4	74.3
August 1997 .....	72.5	83.8	79.6	86.2	81.9	70.2
September 1996 .....	88.5	92.2	97.0	94.1	93.6	85.7

See footnotes at end of table.

**Table 40. No. 2 Diesel Fuel Prices by Sales Type, PAD District, and Selected States**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Sales to End Users					Sales for Resale
	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets <sup>a</sup>	Other End Users <sup>b</sup>	Average	
PAD District V						
September 1997 .....	69.4	75.0	84.6	75.7	74.5	67.3
August 1997 .....	70.3	73.7	82.3	74.9	74.2	67.0
September 1996 .....	86.6	90.5	93.1	90.6	89.4	79.5
Alaska						
September 1997 .....	NA	88.0	106.7	96.2	92.3	79.2
August 1997 .....	93.3	86.5	108.5	96.7	91.2	73.0
September 1996 .....	99.7	86.1	NA	102.7	98.8	80.2
Oregon						
September 1997 .....	72.7	80.4	86.2	81.6	78.0	70.5
August 1997 .....	73.4	76.5	80.4	78.7	76.2	68.8
September 1996 .....	89.8	92.6	94.3	90.8	91.8	82.0
Washington						
September 1997 .....	71.1	78.5	88.3	92.3	78.3	69.8
August 1997 .....	71.8	76.6	83.4	89.4	77.7	67.3
September 1996 .....	87.7	90.3	98.6	98.5	91.4	81.5

Dash (–) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes low-sulfur diesel fuel only with the exception of Alaska, which currently is exempt from the Clean Air Act's diesel fuel sulfur content requirement.

<sup>b</sup> All end-user sales not included in the other end-user categories shown, e.g., sales to agricultural customers or utilities.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

**Table 41. No. 2 Diesel Fuel Prices by Sulfur Content, Sales Type, and PAD District**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Low-Sulfur Diesel Fuel						High-Sulfur Diesel Fuel				
	Sales to End Users					Sales for Resale	Sales to End Users				Sales for Resale
	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets <sup>a</sup>	Other End Users <sup>b</sup>	Average		Commercial/ Institutional Consumers	Industrial Consumers	Other End Users <sup>b</sup>	Average	
United States											
September 1997 .....	63.6	70.4	71.1	74.3	69.0	58.8	63.3	68.0	73.3	67.4	57.9
August 1997 .....	64.5	69.9	71.7	74.4	69.7	59.9	63.9	68.4	72.8	67.6	58.0
September 1996 .....	77.0	84.5	81.7	85.1	80.7	72.5	74.3	80.9	82.7	78.3	70.9
PAD District I											
September 1997 .....	62.2	69.2	70.1	65.9	66.4	56.6	65.4	67.5	72.9	67.8	56.2
August 1997 .....	63.4	68.4	71.0	65.4	67.4	57.9	66.3	68.0	72.4	68.2	57.8
September 1996 .....	74.3	82.9	79.4	76.3	77.3	70.6	72.9	79.2	80.9	76.6	68.3
Subdistrict IA											
September 1997 .....	66.7	79.3	80.5	67.2	71.5	58.3	66.2	76.6	77.5	68.2	55.4
August 1997 .....	68.7	80.1	80.4	NA	72.9	59.9	66.9	79.0	NA	68.8	58.2
September 1996 .....	77.4	93.7	88.1	80.0	81.7	71.9	81.4	87.9	84.7	83.0	67.7
Subdistrict IB											
September 1997 .....	62.6	73.6	70.6	69.6	66.6	56.7	66.0	66.3	72.0	67.2	55.7
August 1997 .....	63.7	72.2	71.6	69.7	67.7	58.2	67.0	67.7	74.5	68.4	57.6
September 1996 .....	75.0	88.3	80.5	78.8	78.2	70.7	72.6	80.9	83.7	75.9	67.6
Subdistrict IC											
September 1997 .....	60.3	66.2	68.8	63.9	65.4	55.9	64.9	67.6	73.1	68.1	56.5
August 1997 .....	61.6	65.0	69.8	63.7	66.3	57.3	65.8	67.8	71.8	68.1	57.7
September 1996 .....	72.9	76.9	78.1	74.1	75.8	70.2	72.3	78.1	80.2	76.6	68.7
PAD District II											
September 1997 .....	61.9	67.1	69.8	76.7	68.5	57.7	62.1	68.6	75.0	68.3	58.5
August 1997 .....	62.6	69.1	71.1	77.4	69.5	58.8	62.0	68.9	74.0	67.4	59.4
September 1996 .....	75.3	80.1	80.5	87.1	79.8	72.7	72.9	82.8	86.0	79.2	72.5
PAD District III											
September 1997 .....	60.3	67.3	67.1	68.8	65.6	54.9	57.7	62.7	68.5	62.2	53.4
August 1997 .....	61.8	67.1	67.5	69.8	66.6	56.4	58.0	63.9	69.8	63.7	54.3
September 1996 .....	72.4	77.0	78.3	78.5	76.4	68.3	67.9	75.1	77.7	72.7	66.8
PAD District IV											
September 1997 .....	72.7	76.0	80.4	83.2	78.6	66.7	68.0	82.8	81.6	74.5	70.4
August 1997 .....	71.0	74.7	77.8	83.0	77.1	66.2	66.5	81.9	79.0	73.5	66.7
September 1996 .....	82.3	87.7	88.6	92.0	87.7	80.7	77.5	89.9	92.7	82.9	82.1
PAD District V											
September 1997 .....	70.5	77.2	84.6	75.4	76.0	67.7	67.1	70.6	76.5	70.0	65.9
August 1997 .....	71.1	75.8	82.3	74.9	75.5	67.8	68.4	69.4	75.0	70.3	64.0
September 1996 .....	87.7	92.2	93.1	93.5	90.9	79.7	84.8	87.6	84.9	85.7	78.4

NA = Not available.

<sup>a</sup> Includes low-sulfur diesel fuel only with the exception of Alaska, which currently is exempt from the Clean Air Act's diesel fuel sulfur content requirement.

<sup>b</sup> All end-user sales not included in the other end-user categories shown, e.g., sales to agricultural customers or utilities.

Notes: Some State data are not sufficient for publication individually, but are used in calculating the PAD District average.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

**Table 42. Residual Fuel Oil Prices by PAD District and State**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Sulfur Less Than or Equal to 1 Percent		Sulfur Greater Than 1 Percent		Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>United States</b>						
September 1997 .....	43.9	40.1	40.3	38.0	41.5	38.9
August 1997 .....	43.1	40.1	39.5	37.9	40.9	38.8
September 1996 .....	49.2	43.1	42.6	40.7	44.5	41.5
<b>PAD District I</b>						
September 1997 .....	42.9	41.4	41.3	39.4	42.1	40.9
August 1997 .....	42.2	41.4	40.0	38.9	41.2	40.5
September 1996 .....	48.8	45.6	43.8	42.4	45.9	44.0
<b>Subdistrict IA</b>						
September 1997 .....	42.2	41.1	41.3	W	41.9	40.7
August 1997 .....	42.4	39.0	39.5	41.0	41.3	39.3
September 1996 .....	45.1	44.6	42.6	43.7	44.2	43.9
<b>Connecticut</b>						
September 1997 .....	43.7	W	W	—	41.9	W
August 1997 .....	43.9	W	W	—	W	W
September 1996 .....	49.4	43.5	—	W	49.4	44.4
<b>Maine</b>						
September 1997 .....	44.8	W	41.5	W	43.1	39.0
August 1997 .....	44.1	W	40.3	40.0	42.0	39.6
September 1996 .....	W	W	42.4	W	44.2	W
<b>Massachusetts</b>						
September 1997 .....	41.0	40.5	NA	NA	40.9	40.7
August 1997 .....	41.4	38.6	38.6	NA	40.6	38.8
September 1996 .....	43.8	46.4	42.9	42.2	43.8	43.2
<b>New Hampshire</b>						
September 1997 .....	NA	NA	44.2	—	45.8	NA
August 1997 .....	NA	NA	43.1	—	45.3	NA
September 1996 .....	46.6	W	43.0	W	43.4	W
<b>Rhode Island</b>						
September 1997 .....	43.3	W	W	NA	43.4	W
August 1997 .....	43.4	W	—	NA	43.4	W
September 1996 .....	47.3	W	W	—	47.1	W
<b>Vermont</b>						
September 1997 .....	W	—	43.0	—	43.3	—
August 1997 .....	W	—	42.5	—	51.4	—
September 1996 .....	W	W	44.1	—	44.2	W
<b>Subdistrict IB</b>						
September 1997 .....	45.4	41.3	40.1	38.4	42.9	40.6
August 1997 .....	44.5	41.6	39.1	38.6	41.7	40.5
September 1996 .....	52.8	46.7	45.8	41.0	49.7	44.4
<b>Delaware</b>						
September 1997 .....	45.4	NA	39.0	38.0	41.9	38.2
August 1997 .....	43.3	W	38.2	W	39.6	W
September 1996 .....	47.1	NA	42.0	W	44.9	W
<b>District of Columbia</b>						
September 1997 .....	W	—	—	—	W	—
August 1997 .....	W	—	—	—	W	—
September 1996 .....	W	—	—	—	W	—
<b>Maryland</b>						
September 1997 .....	W	W	43.9	W	40.9	W
August 1997 .....	W	W	42.8	W	41.3	W
September 1996 .....	W	—	47.2	—	47.2	—
<b>New Jersey</b>						
September 1997 .....	NA	42.4	41.4	38.1	43.5	39.9
August 1997 .....	43.4	42.1	39.6	37.1	41.4	41.4
September 1996 .....	48.2	44.7	41.9	41.3	46.1	42.3
<b>New York</b>						
September 1997 .....	47.0	41.7	40.1	40.8	44.0	41.7
August 1997 .....	49.1	41.8	39.1	38.9	43.9	40.8
September 1996 .....	58.0	49.7	48.3	W	53.6	48.4
<b>Pennsylvania</b>						
September 1997 .....	45.9	40.0	37.8	W	40.1	39.8
August 1997 .....	40.3	W	37.0	W	38.4	40.4
September 1996 .....	47.1	W	43.7	41.4	45.1	44.6

See footnotes at end of table.

**Table 42. Residual Fuel Oil Prices by PAD District and State**

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Sulfur Less Than or Equal to 1 Percent		Sulfur Greater Than 1 Percent		Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Subdistrict IC</b>						
September 1997 .....	41.1	W	42.1	40.6	41.7	41.4
August 1997 .....	40.7	41.8	40.8	39.3	40.8	40.7
September 1996 .....	44.0	W	43.2	42.8	43.3	42.7
<b>Florida</b>						
September 1997 .....	W	W	41.4	39.6	41.1	W
August 1997 .....	W	W	40.8	39.7	40.8	40.8
September 1996 .....	W	W	42.6	W	42.6	W
<b>Georgia</b>						
September 1997 .....	—	—	42.5	—	42.5	—
August 1997 .....	—	—	40.4	W	40.4	W
September 1996 .....	—	—	44.2	—	44.2	—
<b>North Carolina</b>						
September 1997 .....	W	W	42.1	W	42.8	W
August 1997 .....	W	—	40.9	43.7	41.5	43.7
September 1996 .....	W	—	43.9	43.8	44.6	43.8
<b>South Carolina</b>						
September 1997 .....	W	W	W	W	W	W
August 1997 .....	W	W	W	W	W	40.5
September 1996 .....	W	—	44.2	W	45.5	W
<b>Virginia</b>						
September 1997 .....	42.6	W	46.1	W	45.7	44.9
August 1997 .....	38.2	W	39.5	38.4	38.8	39.8
September 1996 .....	43.2	W	44.3	W	44.1	W
<b>West Virginia</b>						
September 1997 .....	—	—	W	—	W	—
August 1997 .....	W	—	W	—	W	—
September 1996 .....	W	—	W	—	W	—
<b>PAD District II</b>						
September 1997 .....	39.8	38.0	40.2	35.1	40.1	35.2
August 1997 .....	39.9	NA	38.8	33.9	39.3	35.2
September 1996 .....	41.2	37.1	42.8	37.6	42.1	37.6
<b>Illinois</b>						
September 1997 .....	W	W	W	W	42.4	W
August 1997 .....	W	W	44.8	W	45.0	W
September 1996 .....	W	W	W	W	W	W
<b>Indiana</b>						
September 1997 .....	W	W	45.7	W	45.7	W
August 1997 .....	W	W	39.4	W	39.7	W
September 1996 .....	46.6	W	42.5	W	42.8	W
<b>Iowa</b>						
September 1997 .....	W	—	—	—	W	—
August 1997 .....	W	—	—	—	W	—
September 1996 .....	W	—	—	—	W	—
<b>Kansas</b>						
September 1997 .....	W	—	W	W	W	W
August 1997 .....	W	—	W	29.6	W	29.6
September 1996 .....	W	—	W	W	W	W
<b>Kentucky</b>						
September 1997 .....	W	—	W	—	W	—
August 1997 .....	W	—	W	—	W	—
September 1996 .....	W	W	W	—	45.5	W
<b>Michigan</b>						
September 1997 .....	36.1	W	39.5	W	38.2	W
August 1997 .....	39.0	W	NA	W	38.6	38.2
September 1996 .....	W	W	NA	W	45.0	W
<b>Minnesota</b>						
September 1997 .....	—	—	W	W	W	W
August 1997 .....	—	—	W	NA	W	NA
September 1996 .....	—	—	W	W	W	W
<b>Missouri</b>						
September 1997 .....	W	W	W	—	42.3	W
August 1997 .....	W	W	W	—	38.4	W
September 1996 .....	34.0	W	—	—	34.0	W

See footnotes at end of table.

**Table 42. Residual Fuel Oil Prices by PAD District and State**

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Sulfur Less Than or Equal to 1 Percent		Sulfur Greater Than 1 Percent		Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Nebraska</b>						
September 1997 .....	W	—	W	—	W	—
August 1997 .....	W	—	—	—	W	—
September 1996 .....	W	—	W	—	W	—
<b>North Dakota</b>						
September 1997 .....	—	—	W	—	W	—
August 1997 .....	—	—	W	—	W	—
September 1996 .....	—	—	W	—	W	—
<b>Ohio</b>						
September 1997 .....	W	—	37.2	W	40.0	W
August 1997 .....	W	—	38.2	W	40.4	W
September 1996 .....	50.1	—	37.6	W	43.8	W
<b>Oklahoma</b>						
September 1997 .....	—	—	W	W	W	W
August 1997 .....	—	—	W	W	W	W
September 1996 .....	—	—	W	W	W	W
<b>South Dakota</b>						
September 1997 .....	W	—	—	W	W	W
August 1997 .....	W	—	—	W	W	W
September 1996 .....	W	—	—	—	W	—
<b>Tennessee</b>						
September 1997 .....	W	—	W	W	W	W
August 1997 .....	W	—	W	W	W	W
September 1996 .....	W	W	W	W	W	37.8
<b>Wisconsin</b>						
September 1997 .....	—	W	32.8	W	32.8	W
August 1997 .....	—	W	W	W	W	W
September 1996 .....	—	W	W	32.0	W	32.0
<b>PAD District III</b>						
September 1997 .....	W	36.5	38.9	36.9	38.9	36.8
August 1997 .....	W	37.0	38.7	37.4	38.7	37.4
September 1996 .....	43.4	38.1	41.3	39.5	41.3	39.2
<b>Alabama</b>						
September 1997 .....	W	W	NA	W	NA	W
August 1997 .....	W	W	40.7	NA	40.8	W
September 1996 .....	W	—	42.4	W	42.5	W
<b>Arkansas</b>						
September 1997 .....	—	—	W	—	W	—
August 1997 .....	—	—	W	—	W	—
September 1996 .....	—	—	W	—	W	—
<b>Louisiana</b>						
September 1997 .....	W	W	38.6	36.3	38.6	36.4
August 1997 .....	W	W	38.5	37.1	38.5	37.2
September 1996 .....	W	W	41.0	37.9	41.0	38.7
<b>Mississippi</b>						
September 1997 .....	—	W	NA	W	NA	W
August 1997 .....	—	—	NA	W	NA	W
September 1996 .....	—	—	NA	W	NA	W
<b>New Mexico</b>						
September 1997 .....	—	W	—	—	—	W
August 1997 .....	—	W	—	—	—	W
September 1996 .....	—	W	—	—	—	W
<b>Texas</b>						
September 1997 .....	W	35.1	37.7	37.5	37.7	36.6
August 1997 .....	—	37.3	38.1	37.9	38.1	37.7
September 1996 .....	W	37.0	41.4	40.8	41.4	39.5
<b>PAD District IV</b>						
September 1997 .....	W	28.3	29.0	W	29.3	24.1
August 1997 .....	W	39.0	28.9	W	29.8	30.3
September 1996 .....	NA	W	25.3	W	25.5	35.6
<b>Colorado</b>						
September 1997 .....	W	—	—	—	W	—
August 1997 .....	W	—	W	—	W	—
September 1996 .....	—	—	—	—	—	—

See footnotes at end of table.

**Table 42. Residual Fuel Oil Prices by PAD District and State**

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Sulfur Less Than or Equal to 1 Percent		Sulfur Greater Than 1 Percent		Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Idaho</b>						
September 1997 .....	—	—	W	—	W	—
August 1997 .....	—	—	W	—	W	—
September 1996 .....	—	—	W	—	W	—
<b>Montana</b>						
September 1997 .....	—	—	W	NA	W	NA
August 1997 .....	—	—	W	W	W	W
September 1996 .....	—	—	W	W	W	W
<b>Utah</b>						
September 1997 .....	—	W	W	—	W	W
August 1997 .....	—	W	W	—	W	W
September 1996 .....	NA	W	W	—	25.8	W
<b>Wyoming</b>						
September 1997 .....	—	W	W	W	W	22.8
August 1997 .....	W	38.1	W	W	W	29.5
September 1996 .....	—	W	W	W	W	W
<b>PAD District V</b>						
September 1997 .....	50.0	35.2	40.4	NA	42.7	NA
August 1997 .....	W	32.9	39.6	39.1	42.1	38.0
September 1996 .....	53.5	35.7	42.4	41.9	45.1	40.7
<b>Alaska</b>						
September 1997 .....	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—
<b>Arizona</b>						
September 1997 .....	W	—	—	—	W	—
August 1997 .....	W	—	—	—	W	—
September 1996 .....	W	W	W	—	W	W
<b>California</b>						
September 1997 .....	NA	33.5	39.3	39.9	39.3	38.0
August 1997 .....	W	31.5	38.1	39.9	38.1	37.4
September 1996 .....	W	35.1	42.3	42.4	42.5	39.8
<b>Hawaii</b>						
September 1997 .....	W	—	46.1	W	48.7	W
August 1997 .....	W	—	47.1	W	50.1	W
September 1996 .....	W	—	W	W	W	W
<b>Nevada</b>						
September 1997 .....	—	W	W	—	W	W
August 1997 .....	W	W	—	—	W	W
September 1996 .....	W	W	—	—	W	W
<b>Oregon</b>						
September 1997 .....	—	NA	41.8	44.4	41.8	NA
August 1997 .....	—	NA	40.7	45.1	40.7	NA
September 1996 .....	NA	—	40.6	47.2	40.8	47.2
<b>Washington</b>						
September 1997 .....	W	NA	39.8	NA	40.5	NA
August 1997 .....	—	NA	39.3	NA	39.3	NA
September 1996 .....	—	—	42.2	NA	42.2	NA

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Notes: Some State data are not sufficient for publication individually, but are used in calculating the PAD District average.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."





# Volumes of Petroleum Products

**Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State**  
(Thousand Gallons per Day)

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>United States</b>												
September 1997 .....	42,657.8	44,572.0	45,151.6	137,453.2	33,830.5	216,435.3	9,990.8	10,239.0	W	16,150.0	W	27,825.9
August 1997 .....	43,499.6	45,183.7	46,314.0	144,418.5	33,840.2	224,572.6	10,306.9	10,554.0	W	17,175.0	W	29,441.3
September 1996 .....	37,866.2	39,610.7	46,571.1	131,436.3	31,526.9	209,534.3	9,360.4	9,643.2	W	15,938.9	W	28,420.1
<b>PAD District I</b>												
September 1997 .....	9,947.9	10,600.3	16,153.4	42,307.0	5,305.2	63,765.6	2,693.9	2,786.5	4,498.2	6,652.3	—	11,150.5
August 1997 .....	10,407.3	10,951.0	16,413.8	44,339.2	6,270.0	67,022.9	2,827.5	2,921.5	4,681.8	7,214.7	—	11,896.5
September 1996 .....	8,593.5	9,183.6	15,609.4	39,523.4	5,090.4	60,223.2	2,497.5	2,607.4	4,781.7	6,829.6	—	11,611.2
<b>Subdistrict IA</b>												
September 1997 .....	455.4	462.8	2,878.7	4,544.6	938.2	8,361.5	130.9	131.3	649.9	551.0	—	1,200.9
August 1997 .....	494.3	499.4	W	4,794.7	W	9,396.6	142.4	143.2	698.4	625.2	—	1,323.6
September 1996 .....	414.2	435.8	2,794.6	3,918.4	860.7	7,573.7	131.2	139.6	740.0	539.1	—	1,279.1
<b>Connecticut</b>												
September 1997 .....	W	W	833.4	1,178.6	291.6	2,303.6	W	W	W	W	—	361.5
August 1997 .....	W	W	843.4	W	W	2,642.4	W	W	W	W	—	370.5
September 1996 .....	W	W	809.9	W	W	2,194.5	W	W	W	W	—	386.6
<b>Maine</b>												
September 1997 .....	—	—	W	1,125.2	W	1,359.8	—	—	W	W	—	134.3
August 1997 .....	—	—	W	1,208.7	W	1,528.3	—	—	W	W	—	166.9
September 1996 .....	—	W	W	939.9	W	1,062.5	—	—	W	W	—	144.2
<b>Massachusetts</b>												
September 1997 .....	258.2	260.7	1,502.4	W	W	3,424.2	78.1	78.3	335.6	167.2	—	502.8
August 1997 .....	276.1	277.7	W	1,464.6	W	3,828.5	84.3	84.8	W	W	—	552.8
September 1996 .....	227.8	244.1	1,462.9	W	W	3,077.5	77.8	85.8	371.7	148.8	—	520.5
<b>New Hampshire</b>												
September 1997 .....	66.1	66.2	190.5	33.3	—	223.7	16.0	16.0	40.4	4.9	—	45.3
August 1997 .....	69.3	69.3	194.2	32.0	—	226.2	17.0	17.1	42.9	4.9	—	47.8
September 1996 .....	55.7	56.2	173.6	36.7	—	210.3	14.8	14.8	44.8	5.3	—	50.1
<b>Rhode Island</b>												
September 1997 .....	W	W	266.4	580.8	—	847.2	W	W	58.2	70.9	—	129.1
August 1997 .....	W	W	274.7	710.2	—	984.8	W	W	61.4	96.4	—	157.7
September 1996 .....	W	47.8	265.4	593.6	—	859.0	W	W	68.7	81.0	—	149.7
<b>Vermont</b>												
September 1997 .....	—	—	W	W	—	203.0	—	—	W	W	—	27.9
August 1997 .....	—	—	W	W	—	186.5	—	—	W	W	—	27.8
September 1996 .....	—	—	W	W	—	169.9	—	—	W	W	—	28.0
<b>Subdistrict IB</b>												
September 1997 .....	3,465.6	3,685.0	9,248.5	12,619.6	4,177.1	26,045.2	851.6	873.2	2,343.1	1,554.9	—	3,898.0
August 1997 .....	3,785.2	3,930.1	W	13,473.5	W	26,710.6	926.0	950.8	2,415.3	1,811.1	—	4,226.4
September 1996 .....	3,299.3	3,450.8	8,973.1	11,532.0	3,615.1	24,120.2	893.7	923.0	2,423.4	1,744.7	—	4,168.1
<b>Delaware</b>												
September 1997 .....	W	27.8	216.6	317.9	—	534.5	W	W	57.6	62.4	—	120.0
August 1997 .....	W	33.0	210.1	438.5	—	648.6	W	8.4	57.2	92.7	—	149.8
September 1996 .....	W	25.3	W	212.2	W	460.9	W	W	W	W	—	105.7
<b>District of Columbia</b>												
September 1997 .....	—	7.9	127.0	—	—	127.0	—	W	79.4	—	—	79.4
August 1997 .....	—	8.2	W	—	—	126.0	—	W	80.2	—	—	80.2
September 1996 .....	—	8.5	125.4	—	—	125.4	—	W	78.0	—	—	78.0
<b>Maryland</b>												
September 1997 .....	W	32.6	1,725.9	1,550.5	—	3,276.4	W	5.4	W	W	—	894.7
August 1997 .....	W	29.5	W	1,531.1	W	3,342.3	W	W	W	W	—	934.2
September 1996 .....	W	35.4	1,713.2	1,222.7	115.1	3,051.0	W	6.1	W	W	—	913.0
<b>New Jersey</b>												
September 1997 .....	792.2	891.7	2,521.4	2,110.8	3,039.2	7,671.5	203.9	210.6	608.8	290.7	—	899.5
August 1997 .....	897.7	933.2	2,573.1	2,039.8	2,937.3	7,550.2	230.0	240.1	628.1	324.5	—	952.5
September 1996 .....	727.8	761.3	2,360.0	1,992.3	2,354.8	6,707.1	204.6	213.7	602.5	337.1	—	939.7
<b>New York</b>												
September 1997 .....	1,298.3	1,337.5	2,730.6	4,092.5	272.6	7,095.7	246.9	252.8	643.4	265.6	—	909.0
August 1997 .....	1,439.2	1,474.5	2,760.8	4,346.9	74.5	7,182.3	268.2	273.2	675.7	336.0	—	1,011.7
September 1996 .....	1,243.0	1,285.3	W	3,530.4	W	6,400.9	263.3	272.8	671.8	297.8	—	969.6
<b>Pennsylvania</b>												
September 1997 .....	1,350.4	1,387.7	1,927.0	4,547.9	865.2	7,340.2	393.4	395.7	W	W	—	995.3
August 1997 .....	1,420.2	1,451.6	1,954.5	5,117.0	789.7	7,861.2	419.1	421.8	W	W	—	1,097.9
September 1996 .....	1,303.0	1,335.0	1,917.2	4,574.4	883.2	7,374.8	417.6	420.7	391.4	770.7	—	1,162.1

See footnotes at end of table.

**Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State**  
(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>United States</b>												
September 1997 .....	8,451.3	8,916.8	W	27,152.1	W	46,498.0	61,099.9	63,727.9	72,460.8	180,755.3	37,543.1	290,759.2
August 1997 .....	8,741.9	9,159.3	W	29,348.8	W	50,012.5	62,548.4	64,897.1	75,189.4	190,942.4	37,894.7	304,026.4
September 1996 .....	8,224.0	8,591.4	W	27,095.8	W	48,469.6	55,450.6	57,845.3	76,646.3	174,471.0	35,306.8	286,424.1
<b>PAD District I</b>												
September 1997 .....	2,762.5	2,882.9	8,104.3	10,926.8	1,655.0	20,686.1	15,404.3	16,269.7	28,756.0	59,886.1	6,960.2	95,602.2
August 1997 .....	2,946.6	3,075.4	8,474.1	11,719.6	1,395.2	21,588.9	16,181.5	16,947.9	29,569.7	63,273.4	7,665.2	100,508.3
September 1996 .....	2,679.1	2,812.1	8,775.7	10,950.9	1,352.1	21,078.6	13,770.0	14,603.2	29,166.7	57,303.9	6,442.5	92,913.0
<b>Subdistrict IA</b>												
September 1997 .....	130.7	130.9	870.6	970.2	231.3	2,072.1	717.0	724.9	4,399.2	6,065.9	1,169.5	11,634.6
August 1997 .....	149.5	149.8	W	1,101.8	W	2,196.2	786.2	792.4	4,584.8	6,521.7	1,809.9	12,916.4
September 1996 .....	140.8	150.2	964.5	957.1	267.1	2,188.7	686.2	725.6	4,499.0	5,414.6	1,127.8	11,041.5
<b>Connecticut</b>												
September 1997 .....	W	W	W	280.4	W	677.6	W	W	1,303.7	W	W	3,342.7
August 1997 .....	W	W	W	303.7	W	712.5	W	W	1,342.5	W	W	3,725.4
September 1996 .....	W	W	W	W	W	602.9	W	W	1,342.6	W	W	3,184.0
<b>Maine</b>												
September 1997 .....	—	—	W	W	—	193.8	—	—	W	1,436.1	W	1,688.0
August 1997 .....	—	—	W	W	—	238.5	—	—	W	1,595.4	W	1,933.7
September 1996 .....	—	—	W	W	W	191.6	—	W	W	1,241.5	W	1,398.4
<b>Massachusetts</b>												
September 1997 .....	72.7	72.7	459.8	W	W	896.3	408.9	411.7	2,297.8	1,960.4	565.1	4,823.3
August 1997 .....	82.0	82.0	506.1	W	W	879.4	442.4	444.5	2,406.0	W	W	5,260.7
September 1996 .....	75.6	84.3	512.9	W	W	1,050.6	381.2	414.3	2,347.5	1,657.3	643.7	4,648.5
<b>New Hampshire</b>												
September 1997 .....	16.1	16.1	43.4	5.0	—	48.4	98.2	98.3	274.3	43.1	—	317.5
August 1997 .....	18.3	18.3	48.6	6.3	—	54.9	104.5	104.6	285.7	43.2	—	328.9
September 1996 .....	18.0	18.2	46.3	6.6	—	52.8	88.4	89.2	264.7	48.5	—	313.2
<b>Rhode Island</b>												
September 1997 .....	W	W	77.5	141.1	—	218.5	W	W	402.1	792.7	—	1,194.8
August 1997 .....	W	W	84.4	185.4	—	269.7	W	W	420.4	991.9	—	1,412.3
September 1996 .....	W	W	88.3	161.7	—	250.0	W	79.0	422.4	836.3	—	1,258.7
<b>Vermont</b>												
September 1997 .....	—	—	W	W	—	37.4	—	—	W	W	—	268.3
August 1997 .....	—	—	W	W	—	41.2	—	—	W	W	—	255.4
September 1996 .....	—	—	W	W	—	40.8	—	—	W	W	—	238.7
<b>Subdistrict IB</b>												
September 1997 .....	988.3	1,017.5	4,941.8	3,069.3	1,297.7	9,308.8	5,305.5	5,575.7	16,533.4	17,243.8	5,474.8	39,251.9
August 1997 .....	1,117.0	1,152.1	W	3,427.6	W	9,660.0	5,828.1	6,033.0	16,932.9	18,712.2	4,951.9	40,597.1
September 1996 .....	1,072.7	1,107.9	5,374.8	3,169.2	1,039.5	9,583.5	5,265.7	5,481.8	16,771.2	16,445.9	4,654.6	37,871.8
<b>Delaware</b>												
September 1997 .....	W	W	57.3	72.5	—	129.9	W	41.0	331.6	452.8	—	784.4
August 1997 .....	W	9.5	59.4	110.6	—	170.0	W	50.8	326.7	641.8	—	968.5
September 1996 .....	W	W	60.0	58.3	—	118.2	W	40.2	319.4	W	W	684.9
<b>District of Columbia</b>												
September 1997 .....	—	W	148.8	—	—	148.8	—	11.4	355.1	—	—	355.1
August 1997 .....	—	W	W	—	—	148.5	—	12.8	354.8	—	—	354.8
September 1996 .....	—	W	153.5	—	—	153.5	—	13.5	356.9	—	—	356.9
<b>Maryland</b>												
September 1997 .....	W	6.5	W	W	W	1,215.0	W	44.5	3,100.4	W	W	5,386.1
August 1997 .....	W	W	808.5	W	W	1,267.5	W	40.9	3,136.1	W	W	5,544.0
September 1996 .....	W	5.7	W	362.1	W	1,215.5	W	47.2	3,174.9	W	W	5,179.5
<b>New Jersey</b>												
September 1997 .....	321.8	334.7	1,452.5	745.3	927.9	3,125.7	1,317.9	1,436.9	4,582.7	3,146.8	3,967.2	11,696.7
August 1997 .....	377.9	395.3	1,538.7	757.4	436.8	2,732.9	1,505.6	1,568.5	4,739.9	3,121.7	3,374.1	11,235.7
September 1996 .....	325.3	342.6	1,550.9	816.4	759.4	3,126.7	1,257.7	1,317.6	4,513.5	3,145.8	3,114.1	10,773.4
<b>New York</b>												
September 1997 .....	347.5	352.3	1,853.0	867.2	84.8	2,804.9	1,892.7	1,942.6	5,227.0	5,225.3	357.4	10,809.6
August 1997 .....	385.6	390.3	1,934.3	985.3	368.5	3,288.1	2,092.9	2,138.0	5,370.8	5,668.3	443.0	11,482.0
September 1996 .....	368.4	374.1	W	798.7	W	2,852.2	1,874.7	1,932.2	5,352.5	4,626.9	243.4	10,222.7
<b>Pennsylvania</b>												
September 1997 .....	313.2	315.9	W	W	W	1,884.5	2,057.0	2,099.2	2,936.6	W	W	10,220.0
August 1997 .....	345.0	348.6	W	W	W	2,053.0	2,184.3	2,221.9	3,004.7	W	W	11,012.1
September 1996 .....	371.8	375.4	745.5	1,133.8	238.1	2,117.4	2,092.4	2,131.1	3,054.1	6,478.9	1,121.3	10,654.2

See footnotes at end of table.

**Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State**  
(Thousand Gallons per Day) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Subdistrict IC</b>												
September 1997 .....	6,026.9	6,452.5	4,026.2	25,142.7	189.9	29,358.8	1,711.4	1,782.0	1,505.3	4,546.4	—	6,051.6
August 1997 .....	6,127.8	6,521.5	4,125.0	26,071.0	719.7	30,915.7	1,759.1	1,827.5	1,568.1	4,778.3	—	6,346.4
September 1996 .....	4,880.0	5,297.0	3,841.7	24,073.0	614.6	28,529.3	1,472.5	1,544.8	1,618.3	4,545.8	—	6,164.1
<b>Florida</b>												
September 1997 .....	2,669.4	2,809.4	W	W	—	8,217.1	776.3	803.9	W	W	—	2,032.9
August 1997 .....	2,713.3	2,824.5	2,144.6	6,232.3	—	8,376.9	800.1	827.6	847.3	1,244.0	—	2,091.3
September 1996 .....	1,950.1	2,092.9	W	6,017.8	W	8,125.9	631.3	660.7	923.8	1,181.1	—	2,104.9
<b>Georgia</b>												
September 1997 .....	1,188.5	1,269.6	W	5,492.2	W	6,042.8	357.7	376.6	W	W	—	970.9
August 1997 .....	1,229.9	1,315.6	555.8	W	W	6,838.6	365.8	385.5	240.0	818.6	—	1,058.6
September 1996 .....	958.7	1,029.1	W	5,226.6	W	5,847.1	301.7	318.8	W	W	—	1,048.5
<b>North Carolina</b>												
September 1997 .....	524.8	630.4	73.5	6,235.8	—	6,309.3	148.6	153.7	27.6	1,314.0	—	1,341.6
August 1997 .....	543.4	646.1	W	6,482.8	W	6,580.5	156.5	160.0	29.4	1,339.9	—	1,369.3
September 1996 .....	417.8	522.6	79.7	5,884.2	273.2	6,237.1	122.0	126.5	30.1	1,245.3	—	1,275.4
<b>South Carolina</b>												
September 1997 .....	592.0	628.4	W	W	—	2,919.9	146.4	149.4	W	W	—	494.2
August 1997 .....	617.3	652.7	W	W	—	3,105.9	154.5	157.2	W	W	—	534.8
September 1996 .....	545.2	579.3	W	2,816.0	W	2,899.8	139.6	144.2	W	W	—	499.5
<b>Virginia</b>												
September 1997 .....	645.5	695.9	1,146.9	W	W	5,406.5	178.7	191.8	404.7	738.5	—	1,143.2
August 1997 .....	661.4	709.4	1,211.4	4,195.6	175.8	5,582.8	186.1	198.2	424.9	783.9	—	1,208.8
September 1996 .....	613.1	659.1	W	3,758.1	W	5,008.1	178.7	191.3	W	W	—	1,160.8
<b>West Virginia</b>												
September 1997 .....	406.7	418.8	142.4	320.7	—	463.2	103.7	106.6	W	W	—	68.9
August 1997 .....	362.5	373.3	65.5	365.4	—	431.0	96.1	99.0	W	W	—	83.5
September 1996 .....	395.2	414.0	41.1	370.4	—	411.4	99.2	103.2	W	W	—	75.0
<b>PAD District II</b>												
September 1997 .....	15,092.8	15,676.1	9,743.1	50,939.6	6,710.7	67,393.5	2,969.5	3,007.9	2,199.2	3,864.0	—	6,063.2
August 1997 .....	15,357.7	15,825.2	10,119.9	53,166.8	6,057.7	69,344.4	3,025.6	3,065.8	2,277.7	3,890.2	—	6,167.9
September 1996 .....	14,067.1	14,572.9	9,867.6	48,121.7	6,391.1	64,380.4	2,851.3	2,888.1	2,320.3	3,335.3	—	5,655.6
<b>Illinois</b>												
September 1997 .....	2,214.3	2,277.0	1,765.2	4,957.1	1,136.4	7,858.7	495.0	495.3	612.4	421.5	—	1,033.9
August 1997 .....	2,249.1	2,263.3	W	4,875.7	W	8,195.3	509.6	510.3	628.8	408.0	—	1,036.8
September 1996 .....	2,107.0	2,130.7	1,805.8	4,581.0	552.6	6,939.4	497.1	497.8	660.1	315.6	—	975.8
<b>Indiana</b>												
September 1997 .....	1,197.4	1,271.3	W	3,323.4	W	5,069.4	251.3	251.7	196.8	427.6	—	624.4
August 1997 .....	1,250.1	1,271.4	1,125.8	3,513.8	548.7	5,188.3	257.7	258.1	209.9	440.6	—	650.5
September 1996 .....	1,171.6	1,191.3	W	3,182.2	W	4,837.9	243.5	243.8	210.2	378.4	—	588.6
<b>Iowa</b>												
September 1997 .....	189.6	193.3	W	W	—	3,127.7	5.1	5.2	W	W	—	252.6
August 1997 .....	155.1	157.6	W	W	—	3,305.7	4.2	4.2	W	W	—	254.7
September 1996 .....	201.8	206.1	W	3,146.9	W	3,351.7	W	W	W	W	—	58.1
<b>Kansas</b>												
September 1997 .....	481.5	496.9	W	2,584.1	W	3,378.5	48.7	48.7	W	W	—	50.7
August 1997 .....	497.6	516.2	W	2,732.6	W	3,506.8	48.8	48.8	W	W	—	52.4
September 1996 .....	480.2	491.3	W	W	831.4	3,404.3	42.3	42.3	W	W	—	52.9
<b>Kentucky</b>												
September 1997 .....	557.2	595.0	W	2,767.5	W	3,247.8	133.9	136.4	W	W	—	406.3
August 1997 .....	579.6	611.7	348.8	W	W	3,354.3	137.6	139.5	W	W	—	382.4
September 1996 .....	527.3	571.6	340.6	2,407.8	—	2,748.4	132.1	135.3	57.1	296.4	—	353.5
<b>Michigan</b>												
September 1997 .....	2,521.7	2,632.7	2,468.9	5,479.1	—	7,948.1	358.3	361.6	457.4	254.0	—	711.4
August 1997 .....	2,502.0	2,609.8	2,575.4	5,810.4	—	8,385.7	351.4	354.3	W	W	—	773.5
September 1996 .....	2,299.7	2,404.1	2,593.4	W	W	7,711.5	350.8	354.1	W	W	—	756.3
<b>Minnesota</b>												
September 1997 .....	911.2	929.5	W	3,913.9	W	4,458.1	130.3	130.6	W	W	—	284.7
August 1997 .....	937.8	955.6	W	4,167.1	W	4,796.1	133.0	133.1	W	W	—	247.7
September 1996 .....	849.5	872.8	W	W	370.5	4,653.2	123.1	123.4	W	W	—	216.8
<b>Missouri</b>												
September 1997 .....	734.0	751.6	424.8	3,847.9	—	4,272.8	121.8	122.1	112.4	67.6	—	180.0
August 1997 .....	734.8	750.5	W	4,179.1	W	4,817.6	124.5	124.8	W	W	—	188.0
September 1996 .....	630.9	650.5	W	3,832.0	W	4,387.6	114.1	114.5	W	W	—	216.0

See footnotes at end of table.

**Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State**  
(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Subdistrict IC</b>												
September 1997 .....	1,643.5	1,734.6	2,292.0	6,887.3	126.0	9,305.3	9,381.7	9,969.1	7,823.4	36,576.4	315.9	44,715.7
August 1997 .....	1,680.2	1,773.5	2,358.9	7,190.2	183.7	9,732.7	9,567.1	10,122.5	8,051.9	38,039.5	903.4	46,994.8
September 1996 .....	1,465.6	1,554.0	2,436.4	6,824.5	45.4	9,306.4	7,818.1	8,395.8	7,896.4	35,443.3	660.0	43,999.8
<b>Florida</b>												
September 1997 .....	868.2	896.3	W	1,727.0	W	3,175.8	4,313.9	4,509.6	W	9,068.7	W	13,425.8
August 1997 .....	888.4	914.4	1,402.8	1,774.2	—	3,176.9	4,401.8	4,566.5	4,394.7	9,250.4	—	13,645.2
September 1996 .....	739.3	765.7	W	1,744.4	W	3,257.1	3,320.7	3,519.3	W	8,943.2	W	13,487.9
<b>Georgia</b>												
September 1997 .....	298.6	320.4	W	W	—	1,709.5	1,844.9	1,966.6	W	7,695.0	W	8,723.3
August 1997 .....	303.7	328.0	272.7	W	W	1,840.4	1,899.5	2,029.2	1,068.5	8,079.3	589.8	9,737.6
September 1996 .....	277.3	298.5	W	W	—	1,710.6	1,537.7	1,646.4	W	7,504.4	W	8,606.2
<b>North Carolina</b>												
September 1997 .....	124.7	142.2	29.5	1,780.1	—	1,809.6	798.0	926.3	130.5	9,330.0	—	9,460.5
August 1997 .....	128.5	147.4	30.1	1,838.0	—	1,868.1	828.4	953.4	W	9,660.7	W	9,818.0
September 1996 .....	97.2	114.4	32.6	1,750.8	—	1,783.4	637.0	763.6	142.3	8,880.3	273.2	9,295.9
<b>South Carolina</b>												
September 1997 .....	116.8	126.4	W	W	—	755.9	855.3	904.3	W	W	—	4,170.0
August 1997 .....	125.1	135.4	W	W	—	807.0	896.9	945.3	W	W	—	4,447.7
September 1996 .....	114.3	122.8	W	W	—	751.7	799.1	846.3	W	4,042.7	W	4,151.0
<b>Virginia</b>												
September 1997 .....	178.4	189.6	603.5	W	W	1,768.2	1,002.6	1,077.3	2,155.1	5,951.9	210.9	8,317.9
August 1997 .....	180.7	192.1	W	1,196.5	W	1,939.5	1,028.2	1,099.6	W	6,176.0	W	8,731.1
September 1996 .....	181.6	192.9	613.2	W	W	1,714.6	973.4	1,043.4	2,166.8	W	W	7,883.5
<b>West Virginia</b>												
September 1997 .....	56.7	59.6	10.3	76.0	—	86.3	567.1	585.0	W	W	—	618.4
August 1997 .....	53.8	56.2	10.9	89.9	—	100.7	512.5	528.5	W	W	—	615.2
September 1996 .....	56.0	59.7	14.1	74.9	—	89.0	550.4	576.9	W	W	—	575.4
<b>PAD District II</b>												
September 1997 .....	2,326.4	2,381.6	2,435.8	7,547.8	235.8	10,219.3	20,388.7	21,065.5	14,378.0	62,351.4	6,946.5	83,676.0
August 1997 .....	2,265.0	2,328.0	2,498.2	7,971.2	183.5	10,652.9	20,648.4	21,218.9	14,895.9	65,028.1	6,241.2	86,165.2
September 1996 .....	2,331.4	2,414.0	2,668.7	7,715.5	224.2	10,608.3	19,249.9	19,874.9	14,856.5	59,172.5	6,615.3	80,644.3
<b>Illinois</b>												
September 1997 .....	465.3	468.5	715.5	764.4	—	1,479.9	3,174.6	3,240.8	3,093.1	6,143.0	1,136.4	10,372.6
August 1997 .....	445.8	450.1	W	780.4	W	1,571.5	3,204.5	3,223.6	3,140.7	6,064.1	1,598.7	10,803.5
September 1996 .....	473.6	482.6	773.3	858.3	—	1,631.6	3,077.8	3,111.1	3,239.3	5,754.9	552.6	9,546.8
<b>Indiana</b>												
September 1997 .....	221.7	221.9	W	573.8	W	851.7	1,670.4	1,744.9	1,495.4	4,324.7	725.3	6,545.4
August 1997 .....	202.5	202.7	254.8	588.7	—	843.5	1,710.3	1,732.2	1,590.5	4,543.2	548.7	6,682.4
September 1996 .....	209.9	210.2	W	621.1	W	898.1	1,625.0	1,645.4	1,506.5	4,181.7	636.5	6,324.7
<b>Iowa</b>												
September 1997 .....	16.3	16.4	W	W	—	244.0	211.0	214.9	W	W	—	3,624.3
August 1997 .....	17.1	17.3	W	W	—	274.5	176.4	179.1	W	W	—	3,834.9
September 1996 .....	W	W	W	W	—	236.8	222.1	226.6	W	3,410.4	W	3,646.6
<b>Kansas</b>												
September 1997 .....	50.8	51.4	W	W	W	268.0	581.0	597.0	W	2,845.9	W	3,697.2
August 1997 .....	53.4	55.0	W	W	W	290.4	599.7	620.0	W	3,008.4	W	3,849.5
September 1996 .....	53.9	54.3	W	240.9	W	288.6	576.3	587.9	W	2,711.3	W	3,745.8
<b>Kentucky</b>												
September 1997 .....	94.8	99.4	W	W	—	699.8	785.9	830.8	W	3,742.7	W	4,353.8
August 1997 .....	98.1	102.9	86.6	640.6	—	727.2	815.4	854.2	W	3,853.0	W	4,463.8
September 1996 .....	98.9	103.7	79.5	573.2	—	652.7	758.3	810.6	477.1	3,277.4	—	3,754.5
<b>Michigan</b>												
September 1997 .....	273.6	290.3	476.0	822.9	—	1,299.0	3,153.7	3,284.6	3,402.4	6,556.0	—	9,958.4
August 1997 .....	252.0	270.8	492.0	W	W	1,354.3	3,105.4	3,234.9	W	6,965.5	W	10,513.5
September 1996 .....	283.4	306.2	562.1	850.2	—	1,412.3	2,933.8	3,064.5	W	6,199.3	W	9,880.1
<b>Minnesota</b>												
September 1997 .....	90.8	90.9	W	W	W	404.2	1,132.3	1,151.1	W	4,480.6	W	5,147.1
August 1997 .....	92.8	93.0	W	W	W	457.9	1,163.6	1,181.8	W	4,727.7	W	5,501.7
September 1996 .....	84.5	85.2	W	362.3	W	429.9	1,057.1	1,081.3	W	4,490.9	W	5,299.9
<b>Missouri</b>												
September 1997 .....	92.9	95.0	103.9	488.7	—	592.6	948.7	968.7	641.1	4,404.2	—	5,045.4
August 1997 .....	95.5	97.9	W	W	—	670.5	954.8	973.3	W	4,810.5	W	5,676.1
September 1996 .....	96.8	99.1	W	W	—	672.0	841.8	864.1	W	4,475.0	W	5,275.6

See footnotes at end of table.

**Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State**  
(Thousand Gallons per Day) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Nebraska</b>												
September 1997 .....	106.8	108.2	113.1	1,693.5	—	1,806.5	W	W	W	W	—	79.9
August 1997 .....	105.8	107.0	124.0	1,830.3	—	1,954.3	W	W	W	W	—	74.2
September 1996 .....	139.8	142.1	132.5	W	W	1,881.8	2.0	2.0	W	W	—	17.5
<b>North Dakota</b>												
September 1997 .....	W	W	W	W	—	949.1	—	—	W	W	—	W
August 1997 .....	W	W	W	W	—	1,038.6	—	—	W	W	—	W
September 1996 .....	W	4.4	W	W	—	908.4	W	W	W	W	—	W
<b>Ohio</b>												
September 1997 .....	3,829.7	4,024.3	W	4,510.3	W	7,282.6	893.1	922.8	W	W	—	879.0
August 1997 .....	3,943.2	4,121.5	W	4,471.4	W	7,215.6	904.2	936.7	W	W	—	854.4
September 1996 .....	3,584.7	3,755.6	2,109.8	W	W	6,214.1	866.3	893.2	W	W	—	796.8
<b>Oklahoma</b>												
September 1997 .....	728.4	743.0	W	W	3,303.2	6,324.2	122.8	122.9	W	W	—	59.9
August 1997 .....	735.6	756.7	W	W	2,235.9	5,372.2	124.1	124.5	W	W	—	65.3
September 1996 .....	596.2	645.4	W	2,703.6	W	6,131.8	114.4	115.0	W	W	—	66.3
<b>South Dakota</b>												
September 1997 .....	W	W	27.2	998.6	—	1,025.8	W	W	W	30.8	—	W
August 1997 .....	W	W	35.1	1,101.7	—	1,136.9	W	W	W	34.3	—	W
September 1996 .....	W	17.4	35.1	977.5	—	1,012.6	W	W	W	W	—	W
<b>Tennessee</b>												
September 1997 .....	976.7	1,001.0	269.8	5,395.8	—	5,665.6	331.8	333.1	100.9	1,018.1	—	1,119.1
August 1997 .....	1,005.3	1,028.8	293.9	5,498.0	—	5,791.9	348.5	349.4	103.8	1,066.3	—	1,170.0
September 1996 .....	865.7	892.4	W	4,790.5	W	5,442.1	281.0	282.0	W	W	—	1,178.9
<b>Wisconsin</b>												
September 1997 .....	626.4	633.0	372.8	W	W	4,978.6	75.3	75.4	W	W	—	316.8
August 1997 .....	641.3	652.4	400.2	W	W	5,285.1	79.9	80.1	W	W	—	343.1
September 1996 .....	592.4	597.1	396.7	4,358.8	—	4,755.6	81.7	81.9	79.4	260.7	—	340.1
<b>PAD District III</b>												
September 1997 .....	6,316.7	6,662.8	1,772.8	27,048.5	16,578.0	45,399.3	1,706.8	1,727.9	552.4	3,755.3	—	4,307.7
August 1997 .....	6,709.0	7,041.0	1,856.7	27,918.3	16,329.5	46,104.5	1,780.5	1,814.8	600.7	3,898.1	—	4,498.8
September 1996 .....	5,512.8	5,710.0	1,813.7	25,957.5	14,133.5	41,904.8	1,556.2	1,594.1	614.5	3,769.4	—	4,383.9
<b>Alabama</b>												
September 1997 .....	260.7	287.5	83.2	3,460.3	—	3,543.5	81.5	89.1	32.2	649.8	—	682.0
August 1997 .....	260.0	286.6	85.6	3,537.4	—	3,623.0	83.4	91.5	31.5	667.4	—	698.9
September 1996 .....	213.6	237.7	W	3,255.2	W	3,384.5	75.1	81.2	W	W	—	641.3
<b>Arkansas</b>												
September 1997 .....	200.1	202.7	W	2,610.0	W	2,955.5	44.3	44.6	W	W	—	323.1
August 1997 .....	200.7	200.7	W	2,699.3	W	2,902.3	46.9	46.9	W	W	—	332.3
September 1996 .....	187.2	189.5	W	2,523.1	W	2,987.9	45.9	46.0	W	W	—	316.4
<b>Louisiana</b>												
September 1997 .....	714.2	719.1	W	2,773.5	W	3,925.5	217.0	217.0	96.1	509.9	—	606.0
August 1997 .....	725.6	735.8	245.0	W	W	3,868.4	219.5	222.8	100.6	531.0	—	631.6
September 1996 .....	395.5	419.2	W	2,738.4	W	4,768.5	151.7	158.5	110.7	553.4	—	664.2
<b>Mississippi</b>												
September 1997 .....	86.1	108.5	7.4	W	W	3,027.2	21.3	25.3	W	W	—	361.4
August 1997 .....	95.0	117.9	W	2,479.3	W	3,297.5	23.5	27.0	W	W	—	372.2
September 1996 .....	71.6	94.6	10.8	W	W	2,468.4	17.7	22.3	3.7	355.1	—	358.8
<b>New Mexico</b>												
September 1997 .....	431.4	437.9	W	W	—	1,610.8	84.3	84.4	W	W	—	155.8
August 1997 .....	460.5	466.5	W	W	—	1,631.0	91.0	91.0	W	W	—	159.9
September 1996 .....	370.3	376.6	W	W	—	1,497.6	65.7	65.7	W	W	—	142.6
<b>Texas</b>												
September 1997 .....	4,624.2	4,907.1	1,332.1	14,322.9	14,681.8	30,336.9	1,258.3	1,267.5	404.6	1,774.9	—	2,179.4
August 1997 .....	4,967.2	5,233.5	1,403.0	14,817.7	14,561.6	30,782.3	1,316.4	1,335.5	448.3	1,855.5	—	2,303.8
September 1996 .....	4,274.6	4,392.5	1,274.0	14,065.4	11,458.4	26,797.9	1,200.0	1,220.4	437.4	1,823.2	—	2,260.6
<b>PAD District IV</b>												
September 1997 .....	1,733.8	1,836.9	W	6,042.1	W	6,783.9	597.5	619.9	176.8	672.3	—	849.1
August 1997 .....	1,816.1	1,917.4	757.4	W	W	7,388.6	620.6	644.1	W	W	—	913.0
September 1996 .....	1,513.2	1,618.3	738.3	5,762.5	—	6,500.8	531.1	553.2	W	W	—	808.6
<b>Colorado</b>												
September 1997 .....	1,271.1	1,272.5	W	2,035.5	W	2,228.9	429.3	429.3	W	W	—	353.1
August 1997 .....	1,328.7	1,330.0	W	2,131.7	W	2,343.4	446.5	446.5	75.7	303.5	—	379.2
September 1996 .....	1,174.0	1,176.1	200.4	2,194.1	—	2,394.5	396.6	396.6	76.8	254.1	—	330.9

See footnotes at end of table.

**Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State**  
(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Nebraska</b>												
September 1997 .....	W	W	W	W	—	130.7	118.1	119.4	154.9	1,862.2	—	2,017.1
August 1997 .....	W	W	W	W	—	149.8	117.0	118.2	W	W	—	2,178.3
September 1996 .....	12.4	12.4	W	W	—	127.7	154.2	156.5	157.2	W	W	2,027.0
<b>North Dakota</b>												
September 1997 .....	W	W	W	40.9	—	W	W	3.6	W	W	—	1,028.3
August 1997 .....	W	W	W	51.4	—	W	W	4.2	W	W	—	1,134.5
September 1996 .....	W	W	W	41.1	—	W	W	4.8	W	W	—	990.0
<b>Ohio</b>												
September 1997 .....	552.0	573.7	506.6	W	W	1,335.7	5,274.8	5,520.8	W	5,689.9	W	9,497.2
August 1997 .....	536.6	558.7	498.5	W	W	1,214.5	5,384.0	5,617.0	W	5,593.5	W	9,284.5
September 1996 .....	560.5	582.9	515.7	702.7	—	1,218.4	5,011.5	5,231.8	W	5,123.1	W	8,229.3
<b>Oklahoma</b>												
September 1997 .....	107.6	108.2	W	451.1	W	545.4	958.8	974.0	W	3,477.0	W	6,929.5
August 1997 .....	107.3	109.2	W	493.5	W	559.8	967.0	990.3	W	3,634.5	W	5,997.3
September 1996 .....	102.2	114.8	W	447.8	W	626.5	812.8	875.2	W	W	3,545.8	6,824.6
<b>South Dakota</b>												
September 1997 .....	W	W	W	62.2	—	W	W	16.6	38.0	1,091.5	—	1,129.6
August 1997 .....	W	W	W	100.2	—	W	W	19.5	49.8	1,236.2	—	1,286.0
September 1996 .....	0.8	W	W	W	—	W	W	18.2	46.0	1,039.9	—	1,085.9
<b>Tennessee</b>												
September 1997 .....	281.8	287.2	107.5	1,535.9	—	1,643.4	1,590.3	1,621.2	478.3	7,949.9	—	8,428.1
August 1997 .....	285.8	291.3	113.4	1,578.9	—	1,692.3	1,639.6	1,669.5	511.1	8,143.1	—	8,654.2
September 1996 .....	263.7	270.6	W	W	—	1,656.4	1,410.4	1,445.0	W	7,381.4	W	8,277.5
<b>Wisconsin</b>												
September 1997 .....	68.5	68.6	69.3	537.2	—	606.6	770.2	777.0	W	5,372.6	W	5,901.9
August 1997 .....	67.6	68.8	74.5	602.3	—	676.7	788.8	801.3	W	5,737.1	W	6,304.9
September 1996 .....	72.9	72.9	80.5	559.9	—	640.4	747.0	751.9	556.6	5,179.4	—	5,736.1
<b>PAD District III</b>												
September 1997 .....	1,425.7	1,453.7	686.3	5,667.6	1,205.7	7,559.6	9,449.2	9,844.5	3,011.5	36,471.3	17,783.8	57,266.6
August 1997 .....	1,479.3	1,517.1	737.2	5,929.0	1,493.9	8,160.0	9,968.9	10,372.8	3,194.6	37,745.4	17,823.3	58,763.3
September 1996 .....	1,380.0	1,423.3	762.7	5,506.3	1,298.0	7,567.1	8,449.0	8,727.3	3,190.9	35,233.2	15,431.5	53,855.7
<b>Alabama</b>												
September 1997 .....	63.3	71.5	35.7	1,000.3	—	1,036.0	405.5	448.1	151.1	5,110.4	—	5,261.5
August 1997 .....	64.9	72.7	36.1	1,024.8	—	1,060.9	408.2	450.8	153.2	5,229.6	—	5,382.8
September 1996 .....	66.0	71.8	33.7	999.2	—	1,032.9	354.7	390.7	135.7	W	W	5,058.6
<b>Arkansas</b>												
September 1997 .....	32.0	32.0	W	W	W	657.6	276.4	279.3	W	3,471.8	W	3,936.2
August 1997 .....	33.0	33.3	W	W	W	633.9	280.6	280.9	W	3,597.0	W	3,868.5
September 1996 .....	31.2	31.2	W	W	—	570.4	264.3	266.7	W	3,395.6	W	3,874.7
<b>Louisiana</b>												
September 1997 .....	179.0	179.5	W	797.6	W	1,239.6	1,110.2	1,115.6	484.8	4,081.0	1,205.4	5,771.1
August 1997 .....	179.2	181.7	164.4	W	W	1,290.2	1,124.3	1,140.3	510.0	4,191.7	1,088.5	5,790.2
September 1996 .....	141.8	148.2	W	793.7	W	1,225.9	689.0	725.8	552.0	4,085.5	2,021.1	6,658.6
<b>Mississippi</b>												
September 1997 .....	15.4	20.2	W	W	—	606.9	122.8	154.1	12.0	W	W	3,995.5
August 1997 .....	16.6	21.4	2.5	639.6	169.4	811.5	135.0	166.3	13.5	W	W	4,481.3
September 1996 .....	13.6	19.3	3.1	W	W	620.6	102.9	136.1	17.6	2,964.0	466.2	3,447.8
<b>New Mexico</b>												
September 1997 .....	55.1	56.1	W	W	—	253.7	570.9	578.4	W	W	—	2,020.3
August 1997 .....	58.8	59.8	W	W	—	278.9	610.3	617.4	W	W	—	2,069.8
September 1996 .....	46.2	47.8	W	W	—	219.1	482.2	490.0	W	W	—	1,859.3
<b>Texas</b>												
September 1997 .....	1,080.9	1,094.5	473.8	2,478.3	813.7	3,765.7	6,963.4	7,269.0	2,210.4	18,576.1	15,495.5	36,282.0
August 1997 .....	1,126.9	1,148.3	516.4	2,602.8	965.5	4,084.6	7,410.5	7,717.3	2,367.6	19,276.1	15,527.1	37,170.7
September 1996 .....	1,081.2	1,105.0	514.4	2,398.0	985.8	3,898.2	6,555.9	6,717.9	2,225.8	18,286.6	12,444.2	32,956.6
<b>PAD District IV</b>												
September 1997 .....	348.5	358.5	W	1,339.4	W	1,515.4	2,679.8	2,815.3	W	8,053.7	W	9,148.5
August 1997 .....	372.9	383.6	W	1,647.7	W	1,840.9	2,809.7	2,945.1	W	8,975.1	W	10,142.5
September 1996 .....	343.0	374.5	W	W	—	1,363.3	2,387.3	2,546.0	1,112.8	7,559.8	—	8,672.6
<b>Colorado</b>												
September 1997 .....	250.7	250.8	W	W	W	437.2	1,951.2	1,952.6	W	2,697.6	W	3,019.2
August 1997 .....	263.6	263.7	W	469.0	W	532.0	2,038.9	2,040.3	W	2,904.3	W	3,254.6
September 1996 .....	252.7	253.1	54.6	433.2	—	487.7	1,823.3	1,825.9	331.7	2,881.4	—	3,213.1

See footnotes at end of table.



**Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State**  
(Thousand Gallons per Day) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Idaho</b>												
September 1997 .....	100.0	113.0	159.0	862.5	—	1,021.6	12.0	13.6	W	W	—	127.0
August 1997 .....	108.9	122.3	199.2	984.2	—	1,183.4	12.2	13.8	37.3	113.9	—	151.2
September 1996 .....	36.2	50.7	184.0	944.5	—	1,128.5	6.4	7.9	30.7	105.7	—	136.4
<b>Montana</b>												
September 1997 .....	W	15.7	W	W	—	1,394.0	W	W	—	W	—	55.7
August 1997 .....	W	18.4	W	W	—	1,624.1	W	W	—	W	—	W
September 1996 .....	W	16.0	W	W	—	1,066.3	W	W	W	W	—	W
<b>Utah</b>												
September 1997 .....	307.9	390.6	374.3	1,204.7	—	1,579.1	146.6	167.5	72.2	233.9	—	306.1
August 1997 .....	312.9	393.3	358.5	1,182.5	—	1,541.0	150.4	172.0	W	W	—	310.1
September 1996 .....	247.6	331.5	W	W	—	1,348.9	119.6	140.1	W	W	—	270.8
<b>Wyoming</b>												
September 1997 .....	W	45.0	W	W	—	560.4	W	W	—	W	—	7.3
August 1997 .....	W	53.5	W	W	—	696.7	W	W	—	W	—	W
September 1996 .....	W	43.9	22.1	540.5	—	562.6	W	W	W	1.5	—	W
<b>PAD District V</b>												
September 1997 .....	9,566.6	9,796.0	W	11,116.1	W	33,093.1	2,023.2	2,096.9	W	1,206.1	W	5,455.4
August 1997 .....	9,209.4	9,449.2	17,166.2	W	W	34,712.3	2,052.7	2,107.8	4,482.6	W	W	5,965.1
September 1996 .....	8,179.6	8,525.9	18,542.1	12,071.2	5,911.9	36,525.2	1,924.3	2,000.4	4,534.9	W	W	5,960.9
<b>Alaska</b>												
September 1997 .....	206.3	222.1	W	W	—	436.0	W	W	W	W	—	W
August 1997 .....	227.5	238.2	90.7	341.7	—	432.4	W	W	W	W	—	11.2
September 1996 .....	182.2	195.1	W	250.6	W	380.5	W	W	W	W	—	14.4
<b>Arizona</b>												
September 1997 .....	1,843.3	1,852.9	1,062.7	741.0	146.0	1,949.7	292.9	293.2	180.9	56.7	—	237.6
August 1997 .....	1,728.2	1,739.3	1,103.1	W	W	2,101.1	291.4	291.9	195.3	71.3	—	266.6
September 1996 .....	1,092.5	1,110.5	W	914.3	W	2,332.4	182.1	182.9	196.5	61.7	—	258.2
<b>California</b>												
September 1997 .....	NA	NA	12,426.7	4,672.6	4,491.4	21,590.7	1,357.3	1,421.6	3,360.9	W	W	4,013.6
August 1997 .....	NA	NA	12,580.4	5,256.2	4,544.7	22,381.2	1,391.3	1,437.5	3,555.8	W	W	4,313.7
September 1996 .....	5,055.3	5,322.9	13,433.8	5,420.4	4,890.8	23,745.1	1,384.1	1,457.5	3,604.9	W	W	4,422.6
<b>Hawaii</b>												
September 1997 .....	140.0	190.7	W	58.9	W	480.5	28.2	37.2	94.1	W	—	W
August 1997 .....	143.7	198.7	W	W	—	397.5	28.5	36.6	W	W	—	97.9
September 1996 .....	127.6	144.2	364.5	85.8	—	450.3	25.2	26.7	W	W	—	105.8
<b>Nevada</b>												
September 1997 .....	138.4	146.9	725.3	586.3	NA	1,354.6	W	W	157.7	63.9	—	221.7
August 1997 .....	113.5	124.7	W	789.3	W	1,614.8	W	W	W	W	—	279.6
September 1996 .....	107.6	115.8	706.3	839.4	67.4	1,613.0	W	W	W	W	—	220.1
<b>Oregon</b>												
September 1997 .....	473.9	491.0	683.6	W	W	2,677.6	58.6	58.6	86.3	107.7	—	194.0
August 1997 .....	461.2	478.1	W	1,966.7	W	2,868.2	61.5	61.5	98.9	140.5	—	239.4
September 1996 .....	441.6	448.9	889.9	1,739.1	539.5	3,168.5	54.0	54.2	98.7	125.9	—	224.6
<b>Washington</b>												
September 1997 .....	1,284.7	1,293.9	1,480.1	W	W	4,604.1	237.2	237.4	317.4	364.8	—	682.2
August 1997 .....	1,175.0	1,183.4	W	3,197.8	W	4,917.1	233.5	233.8	350.1	406.6	—	756.7
September 1996 .....	1,172.8	1,188.4	W	2,821.4	W	4,835.4	212.7	212.9	361.4	353.8	—	715.2

See footnotes at end of table.

**Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State**  
(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Idaho</b>												
September 1997 .....	9.1	9.3	W	W	—	151.2	121.2	135.8	228.6	1,071.2	—	1,299.7
August 1997 .....	10.8	11.0	40.4	144.6	—	185.1	131.8	147.1	276.9	1,242.7	—	1,519.6
September 1996 .....	W	5.9	33.6	138.4	—	172.0	W	64.5	248.3	1,188.6	—	1,436.9
<b>Montana</b>												
September 1997 .....	W	W	W	W	—	415.6	W	20.6	W	W	—	1,865.2
August 1997 .....	W	W	—	W	—	W	W	24.3	W	W	—	2,220.6
September 1996 .....	W	W	W	197.0	—	W	W	20.9	W	W	—	1,332.2
<b>Utah</b>												
September 1997 .....	80.4	86.7	79.0	309.2	—	388.2	535.0	644.9	525.5	1,747.9	—	2,273.3
August 1997 .....	87.9	92.8	W	W	—	420.1	551.2	658.2	509.6	1,761.6	—	2,271.2
September 1996 .....	78.6	105.1	100.3	287.1	—	387.4	445.8	576.6	489.6	1,517.4	—	2,007.0
<b>Wyoming</b>												
September 1997 .....	W	W	W	W	—	123.2	W	61.3	W	W	—	691.0
August 1997 .....	W	W	W	164.3	—	W	W	75.2	W	W	—	876.4
September 1996 .....	6.0	W	5.4	W	—	W	52.3	58.0	W	W	—	683.3
<b>PAD District V</b>												
September 1997 .....	1,588.2	1,840.0	4,281.5	1,670.6	565.4	6,517.5	13,178.0	13,732.9	W	13,992.7	W	45,065.9
August 1997 .....	1,677.9	1,855.3	W	2,081.3	W	7,769.7	12,940.0	13,412.3	W	15,920.3	W	48,447.1
September 1996 .....	1,490.5	1,567.5	5,242.3	W	W	7,852.3	11,594.4	12,093.8	28,319.3	15,201.6	6,817.5	50,338.4
<b>Alaska</b>												
September 1997 .....	W	W	W	24.1	—	W	253.8	271.0	W	W	—	484.0
August 1997 .....	W	W	W	W	—	42.9	272.4	284.3	W	W	—	486.5
September 1996 .....	W	W	16.5	W	W	42.8	240.0	254.9	W	277.8	W	437.6
<b>Arizona</b>												
September 1997 .....	267.3	268.2	219.2	156.3	NA	382.4	2,403.5	2,414.3	1,462.8	953.9	152.9	2,569.7
August 1997 .....	280.5	281.9	246.8	W	W	435.4	2,300.0	2,313.1	1,545.2	1,027.6	230.3	2,803.1
September 1996 .....	216.6	218.7	W	132.0	W	387.6	1,491.2	1,512.2	1,625.6	1,108.0	244.5	2,978.2
<b>California</b>												
September 1997 .....	985.8	1,217.1	3,352.9	W	W	4,586.3	NA	NA	19,140.5	6,035.7	5,014.4	30,190.6
August 1997 .....	1,050.2	1,203.1	3,692.5	W	W	5,306.8	NA	NA	19,828.7	6,881.7	5,291.4	32,001.8
September 1996 .....	983.5	1,044.4	4,154.0	W	W	5,634.0	7,422.9	7,824.8	21,192.7	7,001.3	5,607.7	33,801.7
<b>Hawaii</b>												
September 1997 .....	59.3	76.5	W	18.3	—	W	227.4	304.4	579.2	W	W	763.5
August 1997 .....	59.2	79.5	W	W	—	198.2	231.3	314.8	613.3	80.2	—	693.5
September 1996 .....	48.9	58.4	W	W	—	205.5	201.6	229.3	653.1	108.6	—	761.7
<b>Nevada</b>												
September 1997 .....	W	W	173.8	94.5	NA	271.6	199.8	208.3	1,056.8	744.7	NA	1,847.8
August 1997 .....	W	W	208.9	163.6	NA	379.1	169.6	180.8	1,164.5	W	W	2,273.5
September 1996 .....	W	W	182.9	W	W	361.6	160.7	169.0	W	1,050.8	W	2,194.7
<b>Oregon</b>												
September 1997 .....	53.5	53.9	86.8	W	W	323.3	586.0	603.4	856.6	2,073.3	264.9	3,194.8
August 1997 .....	60.9	61.3	W	257.0	W	535.1	583.5	600.8	930.9	2,364.2	347.5	3,642.6
September 1996 .....	53.9	55.2	126.4	206.3	54.6	387.2	549.4	558.2	1,115.0	2,071.3	594.1	3,780.3
<b>Washington</b>												
September 1997 .....	162.5	163.2	266.7	W	W	729.2	1,684.4	1,694.5	2,064.2	3,723.8	227.4	6,015.5
August 1997 .....	172.8	174.0	W	537.4	W	872.4	1,581.4	1,591.3	2,206.2	4,141.8	198.2	6,546.2
September 1996 .....	143.0	144.1	W	408.6	W	833.6	1,528.5	1,545.4	2,563.8	3,583.8	236.5	6,384.2

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State**  
(Thousand Gallons per Day)

Geographic Area Month	Conventional						Oxygenated					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>United States</b>												
September 1997 .....	37,096.4	38,981.8	24,652.4	147,037.8	28,582.6	200,272.9	2,014.9	2,045.1	W	3,146.6	W	4,837.3
August 1997 .....	38,521.5	40,262.6	26,397.4	156,041.6	27,563.8	210,002.7	1,686.5	1,704.3	1,254.3	2,351.0	—	3,605.3
September 1996 .....	35,954.0	37,572.1	27,431.5	142,389.9	24,674.4	194,495.8	1,332.5	1,367.4	1,750.5	2,387.0	—	4,137.5
<b>PAD District I</b>												
September 1997 .....	11,202.4	11,848.6	8,398.0	44,885.6	3,273.2	56,556.8	—	—	—	—	—	—
August 1997 .....	11,661.8	12,213.0	8,705.4	47,473.3	2,756.7	58,935.4	—	—	—	—	—	—
September 1996 .....	9,736.9	10,319.7	8,573.0	43,381.6	2,608.2	54,562.8	—	—	—	—	—	—
<b>Subdistrict IA</b>												
September 1997 .....	—	—	W	958.2	W	1,160.9	—	—	—	—	—	—
August 1997 .....	—	—	W	1,030.5	W	1,372.8	—	—	—	—	—	—
September 1996 .....	—	W	W	793.8	W	987.5	—	—	—	—	—	—
<b>Connecticut</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	W	W	—	—	—	—	—	—
<b>Maine</b>												
September 1997 .....	—	—	—	W	W	867.7	—	—	—	—	—	—
August 1997 .....	—	—	—	W	W	1,090.1	—	—	—	—	—	—
September 1996 .....	—	—	—	W	W	694.4	—	—	—	—	—	—
<b>Massachusetts</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>New Hampshire</b>												
September 1997 .....	—	—	W	W	—	24.9	—	—	—	—	—	—
August 1997 .....	—	—	W	W	—	27.4	—	—	—	—	—	—
September 1996 .....	—	W	W	W	—	W	—	—	—	—	—	—
<b>Rhode Island</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Vermont</b>												
September 1997 .....	—	—	W	W	—	268.3	—	—	—	—	—	—
August 1997 .....	—	—	W	W	—	255.4	—	—	—	—	—	—
September 1996 .....	—	—	W	W	—	238.7	—	—	—	—	—	—
<b>Subdistrict IB</b>												
September 1997 .....	2,691.8	2,812.7	W	9,637.9	W	15,022.3	—	—	—	—	—	—
August 1997 .....	2,982.4	3,037.5	W	10,715.8	W	15,029.4	—	—	—	—	—	—
September 1996 .....	2,767.6	W	W	9,251.3	W	13,738.4	—	—	—	—	—	—
<b>Delaware</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	W	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>District of Columbia</b>												
September 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
August 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1996 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Maryland</b>												
September 1997 .....	W	W	W	W	—	643.0	—	—	—	—	—	—
August 1997 .....	W	W	W	W	—	654.2	—	—	—	—	—	—
September 1996 .....	W	W	W	W	W	576.9	—	—	—	—	—	—
<b>New Jersey</b>												
September 1997 .....	—	W	—	—	1,646.9	1,646.9	—	—	—	—	—	—
August 1997 .....	—	—	—	—	334.6	334.6	—	—	—	—	—	—
September 1996 .....	—	—	—	—	604.0	604.0	—	—	—	—	—	—
<b>New York</b>												
September 1997 .....	W	1,243.9	1,261.7	W	W	5,053.5	—	—	—	—	—	—
August 1997 .....	W	1,412.2	1,338.0	W	W	5,725.8	—	—	—	—	—	—
September 1996 .....	W	1,235.8	1,310.6	3,457.2	87.5	4,855.3	—	—	—	—	—	—
<b>Pennsylvania</b>												
September 1997 .....	1,474.5	1,498.8	1,273.3	W	W	7,678.9	—	—	—	—	—	—
August 1997 .....	1,596.1	1,620.2	1,357.3	W	W	8,314.7	—	—	—	—	—	—
September 1996 .....	1,557.5	1,589.8	1,344.0	W	W	7,702.2	—	—	—	—	—	—

See footnotes at end of table.

**Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Reformulated						All Formulations					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>United States</b>												
September 1997 .....	21,988.6	22,701.0	W	30,570.9	W	85,649.0	61,099.9	63,727.9	72,460.8	180,755.3	37,543.1	290,759.2
August 1997 .....	22,340.4	22,930.2	47,537.7	32,549.8	10,330.9	90,418.4	62,548.4	64,897.1	75,189.4	190,942.4	37,894.7	304,026.4
September 1996 .....	18,164.0	18,905.8	47,464.3	29,694.1	10,632.4	87,790.8	55,450.6	57,845.3	76,646.3	174,471.0	35,306.8	286,424.1
<b>PAD District I</b>												
September 1997 .....	4,201.9	4,421.1	20,358.0	15,000.5	3,687.0	39,045.4	15,404.3	16,269.7	28,756.0	59,886.1	6,960.2	95,602.2
August 1997 .....	4,519.7	4,734.9	20,864.3	15,800.2	4,908.5	41,572.9	16,181.5	16,947.9	29,569.7	63,273.4	7,665.2	100,508.3
September 1996 .....	4,033.1	4,283.5	20,593.7	13,922.3	3,834.3	38,350.2	13,770.0	14,603.2	29,166.7	57,303.9	6,442.5	92,913.0
<b>Subdistrict IA</b>												
September 1997 .....	717.0	724.9	W	5,107.7	W	10,473.7	717.0	724.9	4,399.2	6,065.9	1,169.5	11,634.6
August 1997 .....	786.2	792.4	W	5,491.2	W	11,543.6	786.2	792.4	4,584.8	6,521.7	1,809.9	12,916.4
September 1996 .....	686.2	W	W	4,620.8	W	10,053.9	686.2	725.6	4,499.0	5,414.6	1,127.8	11,041.5
<b>Connecticut</b>												
September 1997 .....	W	W	1,303.7	W	W	3,342.7	W	W	1,303.7	W	W	3,342.7
August 1997 .....	W	W	1,342.5	W	W	3,725.4	W	W	1,342.5	W	W	3,725.4
September 1996 .....	W	W	1,342.6	W	W	W	W	W	1,342.6	W	W	3,184.0
<b>Maine</b>												
September 1997 .....	—	—	W	W	W	820.3	—	—	W	1,436.1	W	1,688.0
August 1997 .....	—	—	W	W	—	843.6	—	—	W	1,595.4	W	1,933.7
September 1996 .....	—	W	W	W	—	703.9	—	W	W	1,241.5	W	1,398.4
<b>Massachusetts</b>												
September 1997 .....	408.9	411.7	2,297.8	1,960.4	565.1	4,823.3	408.9	411.7	2,297.8	1,960.4	565.1	4,823.3
August 1997 .....	442.4	444.5	2,406.0	W	W	5,260.7	442.4	444.5	2,406.0	W	W	5,260.7
September 1996 .....	381.2	414.3	2,347.5	1,657.3	643.7	4,648.5	381.2	414.3	2,347.5	1,657.3	643.7	4,648.5
<b>New Hampshire</b>												
September 1997 .....	98.2	98.3	W	W	—	292.6	98.2	98.3	274.3	43.1	—	317.5
August 1997 .....	104.5	104.6	W	W	—	301.6	104.5	104.6	285.7	43.2	—	328.9
September 1996 .....	88.4	W	W	W	—	W	88.4	89.2	264.7	48.5	—	313.2
<b>Rhode Island</b>												
September 1997 .....	W	W	402.1	792.7	—	1,194.8	W	W	402.1	792.7	—	1,194.8
August 1997 .....	W	W	420.4	991.9	—	1,412.3	W	W	420.4	991.9	—	1,412.3
September 1996 .....	W	79.0	422.4	836.3	—	1,258.7	W	79.0	422.4	836.3	—	1,258.7
<b>Vermont</b>												
September 1997 .....	—	—	—	—	—	—	—	—	W	W	—	268.3
August 1997 .....	—	—	—	—	—	—	—	—	W	W	—	255.4
September 1996 .....	—	—	—	—	—	—	—	—	W	W	—	238.7
<b>Subdistrict IB</b>												
September 1997 .....	2,613.7	2,763.0	W	7,605.9	W	24,229.6	5,305.5	5,575.7	16,533.4	17,243.8	5,474.8	39,251.9
August 1997 .....	2,845.7	2,995.5	W	7,996.4	W	25,567.7	5,828.1	6,033.0	16,932.9	18,712.2	4,951.9	40,597.1
September 1996 .....	2,498.1	W	W	7,194.6	W	24,133.4	5,265.7	5,481.8	16,771.2	16,445.9	4,654.6	37,871.8
<b>Delaware</b>												
September 1997 .....	W	41.0	W	W	—	784.4	W	41.0	331.6	452.8	—	784.4
August 1997 .....	W	W	W	W	—	968.5	W	50.8	326.7	641.8	—	968.5
September 1996 .....	W	40.2	W	W	W	684.9	W	40.2	319.4	W	W	684.9
<b>District of Columbia</b>												
September 1997 .....	—	11.4	355.1	—	—	355.1	—	11.4	355.1	—	—	355.1
August 1997 .....	—	12.8	354.8	—	—	354.8	—	12.8	354.8	—	—	354.8
September 1996 .....	—	13.5	356.9	—	—	356.9	—	13.5	356.9	—	—	356.9
<b>Maryland</b>												
September 1997 .....	—	W	W	1,652.7	W	4,743.1	W	44.5	3,100.4	W	W	5,386.1
August 1997 .....	—	W	W	1,682.2	W	4,889.8	W	40.9	3,136.1	W	W	5,544.0
September 1996 .....	W	W	W	W	101.1	4,602.6	W	47.2	3,174.9	W	W	5,179.5
<b>New Jersey</b>												
September 1997 .....	1,317.9	W	4,582.7	3,146.8	2,320.2	10,049.8	1,317.9	1,436.9	4,582.7	3,146.8	3,967.2	11,696.7
August 1997 .....	1,505.6	1,568.5	4,739.9	3,121.7	3,039.5	10,901.0	1,505.6	1,568.5	4,739.9	3,121.7	3,374.1	11,235.7
September 1996 .....	1,257.7	1,317.6	4,513.5	3,145.8	2,510.2	10,169.5	1,257.7	1,317.6	4,513.5	3,145.8	3,114.1	10,773.4
<b>New York</b>												
September 1997 .....	W	698.7	3,965.2	W	W	5,756.1	1,892.7	1,942.6	5,227.0	5,225.3	357.4	10,809.6
August 1997 .....	W	725.8	4,032.8	W	W	5,756.2	2,092.9	2,138.0	5,370.8	5,668.3	443.0	11,482.0
September 1996 .....	W	696.3	4,041.9	1,169.6	155.9	5,367.5	1,874.7	1,932.2	5,352.5	4,626.9	243.4	10,222.7
<b>Pennsylvania</b>												
September 1997 .....	582.5	600.4	1,663.2	877.9	—	2,541.2	2,057.0	2,099.2	2,936.6	W	W	10,220.0
August 1997 .....	588.2	601.8	1,647.4	1,049.9	—	2,697.4	2,184.3	2,221.9	3,004.7	W	W	11,012.1
September 1996 .....	534.9	541.3	1,710.1	W	W	2,952.0	2,092.4	2,131.1	3,054.1	6,478.9	1,121.3	10,654.2

See footnotes at end of table.

**Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Conventional						Oxygenated					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Subdistrict IC</b>												
September 1997 .....	8,510.6	9,035.9	W	34,289.6	W	40,373.6	—	—	—	—	—	—
August 1997 .....	8,679.4	9,175.5	W	35,726.9	W	42,533.1	—	—	—	—	—	—
September 1996 .....	6,969.3	7,487.1	5,840.4	33,336.5	660.0	39,836.9	—	—	—	—	—	—
<b>Florida</b>												
September 1997 .....	4,313.9	4,509.6	W	9,068.7	W	13,425.8	—	—	—	—	—	—
August 1997 .....	4,401.8	4,566.5	4,394.7	9,250.4	—	13,645.2	—	—	—	—	—	—
September 1996 .....	3,320.7	3,519.3	W	8,943.2	W	13,487.9	—	—	—	—	—	—
<b>Georgia</b>												
September 1997 .....	1,844.9	1,966.6	W	7,695.0	W	8,723.3	—	—	—	—	—	—
August 1997 .....	1,899.5	2,029.2	1,068.5	8,079.3	589.8	9,737.6	—	—	—	—	—	—
September 1996 .....	1,537.7	1,646.4	W	7,504.4	W	8,606.2	—	—	—	—	—	—
<b>North Carolina</b>												
September 1997 .....	798.0	926.3	130.5	9,330.0	—	9,460.5	—	—	—	—	—	—
August 1997 .....	828.4	953.4	W	9,660.7	W	9,818.0	—	—	—	—	—	—
September 1996 .....	637.0	763.6	142.3	8,880.3	273.2	9,295.9	—	—	—	—	—	—
<b>South Carolina</b>												
September 1997 .....	855.3	904.3	W	W	—	4,170.0	—	—	—	—	—	—
August 1997 .....	896.9	945.3	W	W	—	4,447.7	—	—	—	—	—	—
September 1996 .....	799.1	846.3	W	4,042.7	W	4,151.0	—	—	—	—	—	—
<b>Virginia</b>												
September 1997 .....	131.5	144.2	W	3,665.0	W	3,975.8	—	—	—	—	—	—
August 1997 .....	140.4	152.6	126.3	3,863.4	279.7	4,269.5	—	—	—	—	—	—
September 1996 .....	124.6	134.7	110.8	W	W	3,720.6	—	—	—	—	—	—
<b>West Virginia</b>												
September 1997 .....	567.1	585.0	W	W	—	618.4	—	—	—	—	—	—
August 1997 .....	512.5	528.5	W	W	—	615.2	—	—	—	—	—	—
September 1996 .....	550.4	576.9	W	W	—	575.4	—	—	—	—	—	—
<b>PAD District II</b>												
September 1997 .....	15,750.8	16,371.7	W	56,447.4	W	73,760.5	975.1	991.6	W	1,857.1	W	2,257.4
August 1997 .....	16,018.7	16,543.3	10,829.7	W	W	76,172.7	945.2	961.8	W	W	—	2,043.3
September 1996 .....	15,785.4	16,339.4	10,796.6	54,038.9	6,615.3	71,450.8	860.3	882.2	W	W	—	1,586.8
<b>Illinois</b>												
September 1997 .....	604.4	658.2	W	4,469.9	W	5,915.1	—	—	—	—	—	—
August 1997 .....	630.3	641.1	W	4,344.5	W	6,249.4	—	—	—	—	—	—
September 1996 .....	1,205.3	1,218.5	W	W	W	5,049.7	—	—	—	—	—	—
<b>Indiana</b>												
September 1997 .....	1,395.6	1,467.5	1,255.0	3,792.7	725.3	5,773.0	—	—	—	—	—	—
August 1997 .....	1,429.4	1,449.1	1,337.9	3,958.0	548.7	5,844.6	—	—	—	—	—	—
September 1996 .....	1,521.9	1,540.0	1,270.0	3,653.5	636.5	5,560.0	—	—	—	—	—	—
<b>Iowa</b>												
September 1997 .....	211.0	214.9	W	W	—	3,624.3	—	—	—	—	—	—
August 1997 .....	176.4	179.1	W	W	—	3,834.9	—	—	—	—	—	—
September 1996 .....	222.1	226.6	W	3,410.4	W	3,646.6	—	—	—	—	—	—
<b>Kansas</b>												
September 1997 .....	581.0	597.0	W	2,845.9	W	3,697.2	—	—	—	—	—	—
August 1997 .....	599.7	620.0	W	3,008.4	W	3,849.5	—	—	—	—	—	—
September 1996 .....	576.3	587.9	W	2,711.3	W	3,745.8	—	—	—	—	—	—
<b>Kentucky</b>												
September 1997 .....	457.3	480.2	268.2	W	W	3,373.2	—	—	—	—	—	—
August 1997 .....	477.5	498.7	248.0	W	W	3,395.2	—	—	—	—	—	—
September 1996 .....	511.7	540.1	282.4	2,592.8	—	2,875.2	—	—	—	—	—	—
<b>Michigan</b>												
September 1997 .....	3,153.7	3,284.6	3,402.4	6,556.0	—	9,958.4	—	—	—	—	—	—
August 1997 .....	3,105.4	3,234.9	W	6,965.5	W	10,513.5	—	—	—	—	—	—
September 1996 .....	2,933.8	3,064.5	W	6,199.3	W	9,880.1	—	—	—	—	—	—
<b>Minnesota</b>												
September 1997 .....	157.2	159.4	44.0	W	W	W	975.1	991.6	W	W	W	W
August 1997 .....	218.5	220.0	63.5	3,053.6	W	W	945.2	961.8	W	1,674.1	—	W
September 1996 .....	196.8	199.2	59.0	3,265.5	W	W	860.3	882.2	W	1,225.4	—	W
<b>Missouri</b>												
September 1997 .....	948.7	968.7	641.1	4,404.2	—	5,045.4	—	—	—	—	—	—
August 1997 .....	954.8	973.3	W	4,810.5	W	5,676.1	—	—	—	—	—	—
September 1996 .....	841.8	864.1	W	4,475.0	W	5,275.6	—	—	—	—	—	—

See footnotes at end of table.

**Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State**  
(Thousand Gallons per Day) — Continued

Geographic Area Month	Reformulated						All Formulations					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Subdistrict IC</b>												
September 1997 .....	871.1	933.1	W	2,286.8	W	4,342.1	9,381.7	9,969.1	7,823.4	36,576.4	315.9	44,715.7
August 1997 .....	887.8	947.1	W	2,312.6	W	4,461.7	9,567.1	10,122.5	8,051.9	38,039.5	903.4	46,994.8
September 1996 .....	848.8	908.7	2,056.0	2,106.8	—	4,162.9	7,818.1	8,395.8	7,896.4	35,443.3	660.0	43,999.8
<b>Florida</b>												
September 1997 .....	—	—	—	—	—	—	4,313.9	4,509.6	W	9,068.7	W	13,425.8
August 1997 .....	—	—	—	—	—	—	4,401.8	4,566.5	4,394.7	9,250.4	—	13,645.2
September 1996 .....	—	—	—	—	—	—	3,320.7	3,519.3	W	8,943.2	W	13,487.9
<b>Georgia</b>												
September 1997 .....	—	—	—	—	—	—	1,844.9	1,966.6	W	7,695.0	W	8,723.3
August 1997 .....	—	—	—	—	—	—	1,899.5	2,029.2	1,068.5	8,079.3	589.8	9,737.6
September 1996 .....	—	—	—	—	—	—	1,537.7	1,646.4	W	7,504.4	W	8,606.2
<b>North Carolina</b>												
September 1997 .....	—	—	—	—	—	—	798.0	926.3	130.5	9,330.0	—	9,460.5
August 1997 .....	—	—	—	—	—	—	828.4	953.4	W	9,660.7	W	9,818.0
September 1996 .....	—	—	—	—	—	—	637.0	763.6	142.3	8,880.3	273.2	9,295.9
<b>South Carolina</b>												
September 1997 .....	—	—	—	—	—	—	855.3	904.3	W	W	—	4,170.0
August 1997 .....	—	—	—	—	—	—	896.9	945.3	W	W	—	4,447.7
September 1996 .....	—	—	—	—	—	—	799.1	846.3	W	4,042.7	W	4,151.0
<b>Virginia</b>												
September 1997 .....	871.1	933.1	W	2,286.8	W	4,342.1	1,002.6	1,077.3	2,155.1	5,951.9	210.9	8,317.9
August 1997 .....	887.8	947.1	W	2,312.6	W	4,461.7	1,028.2	1,099.6	W	6,176.0	W	8,731.1
September 1996 .....	848.8	908.7	2,056.0	2,106.8	—	4,162.9	973.4	1,043.4	2,166.8	W	W	7,883.5
<b>West Virginia</b>												
September 1997 .....	—	—	—	—	—	—	567.1	585.0	W	W	—	618.4
August 1997 .....	—	—	—	—	—	—	512.5	528.5	W	W	—	615.2
September 1996 .....	—	—	—	—	—	—	550.4	576.9	W	W	—	575.4
<b>PAD District II</b>												
September 1997 .....	3,662.7	3,702.2	W	4,046.9	W	7,658.1	20,388.7	21,065.5	14,378.0	62,351.4	6,946.5	83,676.0
August 1997 .....	3,684.5	3,713.9	W	4,233.6	W	7,949.1	20,648.4	21,218.9	14,895.9	65,028.1	6,241.2	86,165.2
September 1996 .....	2,604.2	2,653.3	W	W	—	7,606.7	19,249.9	19,874.9	14,856.5	59,172.5	6,615.3	80,644.3
<b>Illinois</b>												
September 1997 .....	2,570.2	2,582.6	W	1,673.1	W	4,457.5	3,174.6	3,240.8	3,093.1	6,143.0	1,136.4	10,372.6
August 1997 .....	2,574.3	2,582.5	W	1,719.6	W	4,554.1	3,204.5	3,223.6	3,140.7	6,064.1	1,598.7	10,803.5
September 1996 .....	1,872.4	1,892.6	W	W	—	4,497.0	3,077.8	3,111.1	3,239.3	5,754.9	552.6	9,546.8
<b>Indiana</b>												
September 1997 .....	274.8	277.5	240.5	532.0	—	772.4	1,670.4	1,744.9	1,495.4	4,324.7	725.3	6,545.4
August 1997 .....	280.9	283.1	252.6	585.2	—	837.8	1,710.3	1,732.2	1,590.5	4,543.2	548.7	6,682.4
September 1996 .....	103.1	105.4	236.4	528.2	—	764.6	1,625.0	1,645.4	1,506.5	4,181.7	636.5	6,324.7
<b>Iowa</b>												
September 1997 .....	—	—	—	—	—	—	211.0	214.9	W	W	—	3,624.3
August 1997 .....	—	—	—	—	—	—	176.4	179.1	W	W	—	3,834.9
September 1996 .....	—	—	—	—	—	—	222.1	226.6	W	3,410.4	W	3,646.6
<b>Kansas</b>												
September 1997 .....	—	—	—	—	—	—	581.0	597.0	W	2,845.9	W	3,697.2
August 1997 .....	—	—	—	—	—	—	599.7	620.0	W	3,008.4	W	3,849.5
September 1996 .....	—	—	—	—	—	—	576.3	587.9	W	2,711.3	W	3,745.8
<b>Kentucky</b>												
September 1997 .....	328.6	350.6	W	W	—	980.6	785.9	830.8	W	3,742.7	W	4,353.8
August 1997 .....	337.9	355.5	W	W	—	1,068.6	815.4	854.2	W	3,853.0	W	4,463.8
September 1996 .....	246.6	270.6	194.7	684.6	—	879.3	758.3	810.6	477.1	3,277.4	—	3,754.5
<b>Michigan</b>												
September 1997 .....	—	—	—	—	—	—	3,153.7	3,284.6	3,402.4	6,556.0	—	9,958.4
August 1997 .....	—	—	—	—	—	—	3,105.4	3,234.9	W	6,965.5	W	10,513.5
September 1996 .....	—	—	—	—	—	—	2,933.8	3,064.5	W	6,199.3	W	9,880.1
<b>Minnesota</b>												
September 1997 .....	—	—	—	—	—	—	1,132.3	1,151.1	W	4,480.6	W	5,147.1
August 1997 .....	—	—	—	—	—	—	1,163.6	1,181.8	W	4,727.7	W	5,501.7
September 1996 .....	—	—	—	—	—	—	1,057.1	1,081.3	W	4,490.9	W	5,299.9
<b>Missouri</b>												
September 1997 .....	—	—	—	—	—	—	948.7	968.7	641.1	4,404.2	—	5,045.4
August 1997 .....	—	—	—	—	—	—	954.8	973.3	W	4,810.5	W	5,676.1
September 1996 .....	—	—	—	—	—	—	841.8	864.1	W	4,475.0	W	5,275.6

See footnotes at end of table.

**Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Conventional						Oxygenated					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Nebraska</b>												
September 1997 .....	118.1	119.4	154.9	1,862.2	—	2,017.1	—	—	—	—	—	—
August 1997 .....	117.0	118.2	W	W	—	2,178.3	—	—	—	—	—	—
September 1996 .....	154.2	156.5	157.2	W	W	2,027.0	—	—	—	—	—	—
<b>North Dakota</b>												
September 1997 .....	W	3.6	W	W	—	1,028.3	—	—	—	—	—	—
August 1997 .....	W	4.2	W	W	—	1,134.5	—	—	—	—	—	—
September 1996 .....	W	4.8	W	W	—	990.0	—	—	—	—	—	—
<b>Ohio</b>												
September 1997 .....	5,274.8	5,520.8	W	5,689.9	W	9,497.2	—	—	—	—	—	—
August 1997 .....	5,384.0	5,617.0	W	5,593.5	W	9,284.5	—	—	—	—	—	—
September 1996 .....	5,011.5	5,231.8	W	5,123.1	W	8,229.3	—	—	—	—	—	—
<b>Oklahoma</b>												
September 1997 .....	958.8	974.0	W	3,477.0	W	6,929.5	—	—	—	—	—	—
August 1997 .....	967.0	990.3	W	3,634.5	W	5,997.3	—	—	—	—	—	—
September 1996 .....	812.8	875.2	W	W	3,545.8	6,824.6	—	—	—	—	—	—
<b>South Dakota</b>												
September 1997 .....	W	16.6	38.0	1,091.5	—	1,129.6	—	—	—	—	—	—
August 1997 .....	W	19.5	49.8	1,236.2	—	1,286.0	—	—	—	—	—	—
September 1996 .....	W	18.2	46.0	1,039.9	—	1,085.9	—	—	—	—	—	—
<b>Tennessee</b>												
September 1997 .....	1,590.3	1,621.2	478.3	7,949.9	—	8,428.1	—	—	—	—	—	—
August 1997 .....	1,639.6	1,669.5	511.1	8,143.1	—	8,654.2	—	—	—	—	—	—
September 1996 .....	1,410.4	1,445.0	W	7,381.4	W	8,277.5	—	—	—	—	—	—
<b>Wisconsin</b>												
September 1997 .....	281.0	285.5	W	4,275.4	W	W	—	—	—	W	—	W
August 1997 .....	297.4	308.5	W	4,626.9	W	W	—	—	—	W	—	W
September 1996 .....	365.0	367.1	W	4,104.2	—	W	—	—	—	W	—	W
<b>PAD District III</b>												
September 1997 .....	4,968.5	5,317.3	W	W	17,060.1	48,963.3	W	W	W	W	—	284.8
August 1997 .....	5,382.8	5,771.0	W	32,238.0	17,068.4	W	W	W	W	—	—	W
September 1996 .....	W	W	W	W	13,943.6	45,204.4	W	W	W	W	—	226.4
<b>Alabama</b>												
September 1997 .....	405.5	448.1	151.1	5,110.4	—	5,261.5	—	—	—	—	—	—
August 1997 .....	408.2	450.8	153.2	5,229.6	—	5,382.8	—	—	—	—	—	—
September 1996 .....	354.7	390.7	135.7	W	W	5,058.6	—	—	—	—	—	—
<b>Arkansas</b>												
September 1997 .....	276.4	279.3	W	3,471.8	W	3,936.2	—	—	—	—	—	—
August 1997 .....	280.6	280.9	W	3,597.0	W	3,868.5	—	—	—	—	—	—
September 1996 .....	264.3	266.7	W	3,395.6	W	3,874.7	—	—	—	—	—	—
<b>Louisiana</b>												
September 1997 .....	1,110.2	W	484.8	W	W	W	—	—	—	—	—	—
August 1997 .....	1,124.3	W	510.0	4,191.7	W	W	—	—	—	—	—	—
September 1996 .....	689.0	W	552.0	4,085.5	W	W	—	—	—	—	—	—
<b>Mississippi</b>												
September 1997 .....	122.8	154.1	12.0	W	W	3,995.5	—	—	—	—	—	—
August 1997 .....	135.0	166.3	13.5	W	W	4,481.3	—	—	—	—	—	—
September 1996 .....	102.9	136.1	17.6	2,964.0	466.2	3,447.8	—	—	—	—	—	—
<b>New Mexico</b>												
September 1997 .....	W	W	W	W	—	W	W	W	W	—	—	W
August 1997 .....	W	W	W	W	—	W	W	W	W	—	—	W
September 1996 .....	W	W	183.7	W	—	W	W	W	W	—	—	W
<b>Texas</b>												
September 1997 .....	W	W	W	13,048.2	W	28,162.9	—	W	W	W	—	W
August 1997 .....	W	3,205.9	226.1	13,768.6	W	W	—	—	—	—	—	—
September 1996 .....	W	2,519.0	W	13,151.9	W	24,763.4	W	W	W	W	—	W
<b>PAD District IV</b>												
September 1997 .....	2,679.8	2,815.3	1,050.8	W	W	8,682.7	—	—	W	W	—	465.8
August 1997 .....	2,809.7	2,945.1	W	W	W	W	—	—	—	W	—	W
September 1996 .....	W	W	W	W	—	8,299.7	W	W	W	W	—	372.9
<b>Colorado</b>												
September 1997 .....	1,951.2	1,952.6	W	W	W	W	—	—	—	W	—	W
August 1997 .....	2,038.9	2,040.3	W	W	W	W	—	—	—	W	—	W
September 1996 .....	W	W	W	2,530.2	—	W	W	W	W	351.2	—	W

See footnotes at end of table.

**Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Reformulated						All Formulations					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Nebraska</b>												
September 1997 .....	—	—	—	—	—	—	118.1	119.4	154.9	1,862.2	—	2,017.1
August 1997 .....	—	—	—	—	—	—	117.0	118.2	W	W	—	2,178.3
September 1996 .....	—	—	—	—	—	—	154.2	156.5	157.2	W	W	2,027.0
<b>North Dakota</b>												
September 1997 .....	—	—	—	—	—	—	W	3.6	W	W	—	1,028.3
August 1997 .....	—	—	—	—	—	—	W	4.2	W	W	—	1,134.5
September 1996 .....	—	—	—	—	—	—	W	4.8	W	W	—	990.0
<b>Ohio</b>												
September 1997 .....	—	—	—	—	—	—	5,274.8	5,520.8	W	5,689.9	W	9,497.2
August 1997 .....	—	—	—	—	—	—	5,384.0	5,617.0	W	5,593.5	W	9,284.5
September 1996 .....	—	—	—	—	—	—	5,011.5	5,231.8	W	5,123.1	W	8,229.3
<b>Oklahoma</b>												
September 1997 .....	—	—	—	—	—	—	958.8	974.0	W	3,477.0	W	6,929.5
August 1997 .....	—	—	—	—	—	—	967.0	990.3	W	3,634.5	W	5,997.3
September 1996 .....	—	—	—	—	—	—	812.8	875.2	W	W	3,545.8	6,824.6
<b>South Dakota</b>												
September 1997 .....	—	—	—	—	—	—	W	16.6	38.0	1,091.5	—	1,129.6
August 1997 .....	—	—	—	—	—	—	W	19.5	49.8	1,236.2	—	1,286.0
September 1996 .....	—	—	—	—	—	—	W	18.2	46.0	1,039.9	—	1,085.9
<b>Tennessee</b>												
September 1997 .....	—	—	—	—	—	—	1,590.3	1,621.2	478.3	7,949.9	—	8,428.1
August 1997 .....	—	—	—	—	—	—	1,639.6	1,669.5	511.1	8,143.1	—	8,654.2
September 1996 .....	—	—	—	—	—	—	1,410.4	1,445.0	W	7,381.4	W	8,277.5
<b>Wisconsin</b>												
September 1997 .....	489.2	491.5	W	W	—	1,447.5	770.2	777.0	W	5,372.6	W	5,901.9
August 1997 .....	491.5	492.8	W	W	—	1,488.6	788.8	801.3	W	5,737.1	W	6,304.9
September 1996 .....	382.0	384.8	W	W	—	1,465.7	747.0	751.9	556.6	5,179.4	—	5,736.1
<b>PAD District III</b>												
September 1997 .....	W	W	2,005.9	5,288.9	723.7	8,018.5	9,449.2	9,844.5	3,011.5	36,471.3	17,783.8	57,266.6
August 1997 .....	W	W	2,141.5	5,507.4	754.9	8,403.9	9,968.9	10,372.8	3,194.6	37,745.4	17,823.3	58,763.3
September 1996 .....	4,103.9	4,144.2	1,970.6	4,966.4	1,487.9	8,425.0	8,449.0	8,727.3	3,190.9	35,233.2	15,431.5	53,855.7
<b>Alabama</b>												
September 1997 .....	—	—	—	—	—	—	405.5	448.1	151.1	5,110.4	—	5,261.5
August 1997 .....	—	—	—	—	—	—	408.2	450.8	153.2	5,229.6	—	5,382.8
September 1996 .....	—	—	—	—	—	—	354.7	390.7	135.7	W	W	5,058.6
<b>Arkansas</b>												
September 1997 .....	—	—	—	—	—	—	276.4	279.3	W	3,471.8	W	3,936.2
August 1997 .....	—	—	—	—	—	—	280.6	280.9	W	3,597.0	W	3,868.5
September 1996 .....	—	—	—	—	—	—	264.3	266.7	W	3,395.6	W	3,874.7
<b>Louisiana</b>												
September 1997 .....	—	W	—	W	W	W	1,110.2	1,115.6	484.8	4,081.0	1,205.4	5,771.1
August 1997 .....	—	W	—	—	W	W	1,124.3	1,140.3	510.0	4,191.7	1,088.5	5,790.2
September 1996 .....	—	W	—	—	W	W	689.0	725.8	552.0	4,085.5	2,021.1	6,658.6
<b>Mississippi</b>												
September 1997 .....	—	—	—	—	—	—	122.8	154.1	12.0	W	W	3,995.5
August 1997 .....	—	—	—	—	—	—	135.0	166.3	13.5	W	W	4,481.3
September 1996 .....	—	—	—	—	—	—	102.9	136.1	17.6	2,964.0	466.2	3,447.8
<b>New Mexico</b>												
September 1997 .....	—	—	—	—	—	—	570.9	578.4	W	W	—	2,020.3
August 1997 .....	—	—	—	—	—	—	610.3	617.4	W	W	—	2,069.8
September 1996 .....	—	—	—	—	—	—	482.2	490.0	W	W	—	1,859.3
<b>Texas</b>												
September 1997 .....	W	4,404.1	2,005.9	W	W	W	6,963.4	7,269.0	2,210.4	18,576.1	15,495.5	36,282.0
August 1997 .....	W	4,511.4	2,141.5	5,507.4	W	W	7,410.5	7,717.3	2,367.6	19,276.1	15,527.1	37,170.7
September 1996 .....	4,103.9	W	1,970.6	W	W	W	6,555.9	6,717.9	2,225.8	18,286.6	12,444.2	32,956.6
<b>PAD District IV</b>												
September 1997 .....	—	—	—	—	—	—	2,679.8	2,815.3	W	8,053.7	W	9,148.5
August 1997 .....	—	—	—	—	—	—	2,809.7	2,945.1	W	8,975.1	W	10,142.5
September 1996 .....	—	—	—	—	—	—	2,387.3	2,546.0	1,112.8	7,559.8	—	8,672.6
<b>Colorado</b>												
September 1997 .....	—	—	—	—	—	—	1,951.2	1,952.6	W	2,697.6	W	3,019.2
August 1997 .....	—	—	—	—	—	—	2,038.9	2,040.3	W	2,904.3	W	3,254.6
September 1996 .....	—	—	—	—	—	—	1,823.3	1,825.9	331.7	2,881.4	—	3,213.1

See footnotes at end of table.



**Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Conventional						Oxygenated					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Idaho</b>												
September 1997 .....	121.2	135.8	228.6	1,071.2	—	1,299.7	—	—	—	—	—	—
August 1997 .....	131.8	147.1	276.9	1,242.7	—	1,519.6	—	—	—	—	—	—
September 1996 .....	W	64.5	248.3	1,188.6	—	1,436.9	—	—	—	—	—	—
<b>Montana</b>												
September 1997 .....	W	20.6	W	W	—	1,865.2	—	—	—	—	—	—
August 1997 .....	W	24.3	W	W	—	2,220.6	—	—	—	—	—	—
September 1996 .....	W	20.9	W	W	—	1,332.2	—	—	—	—	—	—
<b>Utah</b>												
September 1997 .....	535.0	644.9	W	1,747.9	—	W	—	—	W	—	—	W
August 1997 .....	551.2	658.2	509.6	1,761.6	—	2,271.2	—	—	—	—	—	—
September 1996 .....	445.8	W	489.6	W	—	W	—	W	—	W	—	W
<b>Wyoming</b>												
September 1997 .....	W	61.3	W	W	—	691.0	—	—	—	—	—	—
August 1997 .....	W	75.2	W	W	—	876.4	—	—	—	—	—	—
September 1996 .....	52.3	58.0	W	W	—	683.3	—	—	—	—	—	—
<b>PAD District V</b>												
September 1997 .....	2,495.0	2,628.9	3,834.9	W	W	12,309.6	W	W	W	W	—	1,829.3
August 1997 .....	2,648.5	2,790.2	4,719.2	W	W	14,899.8	W	W	W	W	—	1,054.9
September 1996 .....	3,816.6	3,909.3	5,801.1	7,669.6	1,507.3	14,978.0	NA	NA	W	W	—	1,951.4
<b>Alaska</b>												
September 1997 .....	W	W	W	378.4	—	W	W	W	W	W	—	W
August 1997 .....	272.4	W	W	367.1	—	W	—	W	—	W	—	W
September 1996 .....	W	W	22.8	W	W	W	W	W	W	W	—	W
<b>Arizona</b>												
September 1997 .....	440.5	448.6	353.7	646.7	W	W	W	W	W	—	—	W
August 1997 .....	460.3	469.4	547.3	777.0	W	W	W	W	W	—	—	W
September 1996 .....	1,467.8	1,488.8	1,514.4	1,087.5	244.5	2,846.4	23.4	23.4	111.2	20.5	—	131.7
<b>California</b>												
September 1997 .....	—	—	—	108.4	519.7	628.1	—	—	—	—	—	—
August 1997 .....	—	—	—	123.8	637.7	761.5	—	—	—	—	—	—
September 1996 .....	—	—	—	W	297.5	W	—	—	—	—	—	—
<b>Hawaii</b>												
September 1997 .....	227.4	304.4	579.2	W	W	763.5	—	—	—	—	—	—
August 1997 .....	231.3	314.8	613.3	80.2	—	693.5	—	—	—	—	—	—
September 1996 .....	201.6	229.3	653.1	108.6	—	761.7	—	—	—	—	—	—
<b>Nevada</b>												
September 1997 .....	W	W	666.3	653.0	NA	1,365.6	W	W	390.6	91.7	—	482.2
August 1997 .....	169.6	180.8	1,164.5	W	W	2,273.5	—	—	—	—	—	—
September 1996 .....	105.5	110.8	733.6	842.8	W	W	55.2	58.2	W	208.0	—	W
<b>Oregon</b>												
September 1997 .....	W	W	W	W	264.9	W	W	W	W	W	—	W
August 1997 .....	W	W	W	W	347.5	W	W	W	W	W	—	W
September 1996 .....	471.8	480.6	955.2	W	W	3,615.7	NA	NA	W	—	—	W
<b>Washington</b>												
September 1997 .....	W	W	W	W	W	5,042.4	W	W	W	W	—	973.1
August 1997 .....	W	W	W	W	198.2	5,828.8	W	W	W	W	—	717.4
September 1996 .....	W	W	1,922.0	3,183.2	236.5	5,341.7	W	W	NA	400.6	—	NA

See footnotes at end of table.

**Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Reformulated						All Formulations					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Idaho</b>												
September 1997 .....	—	—	—	—	—	—	121.2	135.8	228.6	1,071.2	—	1,299.7
August 1997 .....	—	—	—	—	—	—	131.8	147.1	276.9	1,242.7	—	1,519.6
September 1996 .....	—	—	—	—	—	—	W	64.5	248.3	1,188.6	—	1,436.9
<b>Montana</b>												
September 1997 .....	—	—	—	—	—	—	W	20.6	W	W	—	1,865.2
August 1997 .....	—	—	—	—	—	—	W	24.3	W	W	—	2,220.6
September 1996 .....	—	—	—	—	—	—	W	20.9	W	W	—	1,332.2
<b>Utah</b>												
September 1997 .....	—	—	—	—	—	—	535.0	644.9	525.5	1,747.9	—	2,273.3
August 1997 .....	—	—	—	—	—	—	551.2	658.2	509.6	1,761.6	—	2,271.2
September 1996 .....	—	—	—	—	—	—	445.8	576.6	489.6	1,517.4	—	2,007.0
<b>Wyoming</b>												
September 1997 .....	—	—	—	—	—	—	W	61.3	W	W	—	691.0
August 1997 .....	—	—	—	—	—	—	W	75.2	W	W	—	876.4
September 1996 .....	—	—	—	—	—	—	52.3	58.0	W	W	—	683.3
<b>PAD District V</b>												
September 1997 .....	W	W	W	6,234.6	W	30,927.1	13,178.0	13,732.9	W	13,992.7	W	45,065.9
August 1997 .....	W	W	W	7,008.5	W	32,492.4	12,940.0	13,412.3	W	15,920.3	W	48,447.1
September 1996 .....	7,422.9	7,824.8	W	W	5,310.2	33,409.0	11,594.4	12,093.8	28,319.3	15,201.6	6,817.5	50,338.4
<b>Alaska</b>												
September 1997 .....	—	—	—	—	—	—	253.8	271.0	W	W	—	484.0
August 1997 .....	—	—	—	—	—	—	272.4	284.3	W	W	—	486.5
September 1996 .....	—	—	—	—	—	—	240.0	254.9	W	277.8	W	437.6
<b>Arizona</b>												
September 1997 .....	W	W	W	307.3	W	1,364.6	2,403.5	2,414.3	1,462.8	953.9	152.9	2,569.7
August 1997 .....	W	W	W	250.6	W	1,252.1	2,300.0	2,313.1	1,545.2	1,027.6	230.3	2,803.1
September 1996 .....	—	—	—	—	—	—	1,491.2	1,512.2	1,625.6	1,108.0	244.5	2,978.2
<b>California</b>												
September 1997 .....	NA	NA	19,140.5	5,927.3	4,494.7	29,562.5	NA	NA	19,140.5	6,035.7	5,014.4	30,190.6
August 1997 .....	NA	NA	19,828.7	6,758.0	4,653.6	31,240.3	NA	NA	19,828.7	6,881.7	5,291.4	32,001.8
September 1996 .....	7,422.9	7,824.8	21,192.7	W	5,310.2	W	7,422.9	7,824.8	21,192.7	7,001.3	5,607.7	33,801.7
<b>Hawaii</b>												
September 1997 .....	—	—	—	—	—	—	227.4	304.4	579.2	W	W	763.5
August 1997 .....	—	—	—	—	—	—	231.3	314.8	613.3	80.2	—	693.5
September 1996 .....	—	—	—	—	—	—	201.6	229.3	653.1	108.6	—	761.7
<b>Nevada</b>												
September 1997 .....	—	—	—	—	—	—	199.8	208.3	1,056.8	744.7	NA	1,847.8
August 1997 .....	—	—	—	—	—	—	169.6	180.8	1,164.5	W	W	2,273.5
September 1996 .....	—	—	—	—	—	—	160.7	169.0	W	1,050.8	W	2,194.7
<b>Oregon</b>												
September 1997 .....	—	—	—	—	—	—	586.0	603.4	856.6	2,073.3	264.9	3,194.8
August 1997 .....	—	—	—	—	—	—	583.5	600.8	930.9	2,364.2	347.5	3,642.6
September 1996 .....	—	—	W	W	—	W	549.4	558.2	1,115.0	2,071.3	594.1	3,780.3
<b>Washington</b>												
September 1997 .....	—	—	—	—	—	—	1,684.4	1,694.5	2,064.2	3,723.8	227.4	6,015.5
August 1997 .....	—	—	—	—	—	—	1,581.4	1,591.3	2,206.2	4,141.8	198.2	6,546.2
September 1996 .....	—	—	—	—	—	—	1,528.5	1,545.4	2,563.8	3,583.8	236.5	6,384.2

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 45. Refiner Volumes of Aviation Fuels, Kerosene, No. 1 Distillate, and Propane (Consumer Grade) by PAD District and State**  
(Thousand Gallons per Day)

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene		No. 1 Distillate		Propane (Consumer Grade)	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>United States</b>										
September 1997 .....	179.3	721.5	51,061.2	10,535.3	298.0	2,023.8	226.4	877.0	3,130.2	32,468.1
August 1997 .....	201.6	817.9	51,778.0	11,962.3	241.1	1,223.5	227.0	442.5	2,304.5	28,739.8
September 1996 .....	163.1	701.0	50,553.3	10,048.8	265.5	1,970.0	206.7	906.8	4,122.7	30,366.6
<b>PAD District I</b>										
September 1997 .....	66.5	116.0	13,347.6	1,897.3	58.7	981.2	4.1	W	126.4	4,499.3
August 1997 .....	72.5	147.9	12,972.3	1,842.4	W	604.2	1.3	3.2	110.4	3,899.9
September 1996 .....	62.5	116.7	12,963.2	1,899.5	68.2	1,157.6	2.4	26.0	82.9	4,036.2
<b>Subdistrict IA</b>										
September 1997 .....	W	11.6	1,034.3	90.1	W	30.0	W	W	W	60.2
August 1997 .....	W	23.1	1,016.0	67.0	W	12.0	—	W	W	53.2
September 1996 .....	W	17.3	1,061.7	86.9	2.1	169.2	W	2.4	W	53.7
<b>Connecticut</b>										
September 1997 .....	W	2.6	212.4	W	W	W	W	W	W	24.6
August 1997 .....	W	2.0	183.8	8.8	—	W	—	W	W	34.4
September 1996 .....	W	3.3	325.5	16.0	W	W	—	W	W	21.1
<b>Maine</b>										
September 1997 .....	W	—	W	19.8	—	8.4	—	W	—	W
August 1997 .....	W	W	W	8.4	—	5.1	—	—	—	W
September 1996 .....	W	W	W	14.0	—	15.0	—	W	—	9.7
<b>Massachusetts</b>										
September 1997 .....	W	W	698.0	51.7	—	W	—	—	—	W
August 1997 .....	W	W	704.1	45.5	W	W	—	—	—	W
September 1996 .....	W	W	W	52.1	W	W	—	—	W	W
<b>New Hampshire</b>										
September 1997 .....	W	W	23.8	W	W	W	—	—	—	21.7
August 1997 .....	W	W	26.7	1.6	—	W	—	—	—	9.5
September 1996 .....	W	W	W	W	W	W	W	—	W	W
<b>Rhode Island</b>										
September 1997 .....	W	W	26.4	1.6	—	W	—	W	—	W
August 1997 .....	W	W	31.4	W	—	W	—	—	—	W
September 1996 .....	—	W	32.4	1.5	—	W	—	W	—	—
<b>Vermont</b>										
September 1997 .....	W	—	W	W	—	W	—	W	—	3.4
August 1997 .....	W	W	W	W	—	W	—	—	—	4.3
September 1996 .....	W	W	6.2	W	—	W	—	W	—	16.0
<b>Subdistrict IB</b>										
September 1997 .....	W	26.7	6,923.0	1,085.8	55.0	522.6	1.9	3.6	W	1,350.9
August 1997 .....	W	37.2	6,600.4	1,034.5	W	364.2	1.3	W	W	1,335.0
September 1996 .....	W	24.5	6,099.4	1,209.4	60.1	538.5	1.6	22.3	W	1,302.3
<b>Delaware</b>										
September 1997 .....	W	W	0.9	W	—	W	—	—	—	W
August 1997 .....	W	W	1.3	W	—	W	—	—	—	W
September 1996 .....	W	W	1.3	W	—	—	—	—	—	W
<b>District of Columbia</b>										
September 1997 .....	—	—	—	W	—	—	—	—	—	—
August 1997 .....	—	—	—	W	—	—	—	—	—	—
September 1996 .....	—	—	—	W	—	—	—	—	—	—
<b>Maryland</b>										
September 1997 .....	W	W	396.0	10.9	W	W	W	W	—	W
August 1997 .....	W	W	458.7	17.4	W	W	W	—	—	W
September 1996 .....	W	W	318.2	12.6	W	W	W	W	—	W
<b>New Jersey</b>										
September 1997 .....	W	10.6	3,801.7	418.3	W	176.5	—	W	—	226.9
August 1997 .....	W	21.9	3,716.7	450.5	W	215.3	—	2.1	W	321.1
September 1996 .....	W	8.9	3,888.8	686.5	W	151.5	—	W	W	282.5
<b>New York</b>										
September 1997 .....	W	6.3	1,027.3	304.2	W	97.3	W	W	W	233.7
August 1997 .....	W	6.7	1,240.1	279.0	W	55.2	W	W	W	195.9
September 1996 .....	W	5.8	891.9	188.3	W	W	W	W	W	304.3
<b>Pennsylvania</b>										
September 1997 .....	6.6	8.0	1,697.1	314.3	7.0	169.2	W	1.6	W	677.5
August 1997 .....	7.3	6.8	1,183.6	249.9	3.5	77.4	W	0.5	W	561.6
September 1996 .....	5.6	7.6	999.2	291.8	8.5	211.5	W	W	W	551.6

See footnotes at end of table.

**Table 45. Refiner Volumes of Aviation Fuels, Kerosene, No. 1 Distillate, and Propane (Consumer Grade) by PAD District and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene		No. 1 Distillate		Propane (Consumer Grade)	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Subdistrict IC</b>										
September 1997 .....	38.4	77.7	5,390.4	721.4	W	428.6	W	W	124.8	3,088.1
August 1997 .....	42.0	87.6	5,355.9	740.9	3.5	228.0	—	—	92.8	2,511.7
September 1996 .....	39.1	74.9	5,802.1	603.2	6.1	449.9	W	1.3	78.3	2,680.2
<b>Florida</b>										
September 1997 .....	19.9	35.7	2,623.7	214.9	W	18.2	W	—	W	520.7
August 1997 .....	24.7	38.1	2,530.8	240.4	W	13.0	—	—	W	438.9
September 1996 .....	20.6	35.9	2,769.9	187.2	0.2	24.2	—	—	W	588.8
<b>Georgia</b>										
September 1997 .....	4.2	16.7	1,081.7	309.1	0.2	18.7	—	—	W	530.8
August 1997 .....	3.4	21.6	1,217.6	333.1	0.2	W	—	—	W	460.7
September 1996 .....	4.2	18.1	1,430.7	232.4	0.2	26.9	—	—	W	552.5
<b>North Carolina</b>										
September 1997 .....	W	18.4	596.2	88.5	0.3	169.0	—	W	75.6	1,170.3
August 1997 .....	W	19.4	608.1	77.1	W	86.7	—	—	56.7	935.0
September 1996 .....	W	15.3	633.8	106.8	W	180.8	—	W	W	885.8
<b>South Carolina</b>										
September 1997 .....	2.8	4.8	W	32.4	0.3	85.6	—	—	W	555.8
August 1997 .....	2.7	6.1	W	25.9	0.3	50.9	—	—	W	482.0
September 1996 .....	W	3.6	W	27.8	0.5	94.2	—	—	W	367.2
<b>Virginia</b>										
September 1997 .....	W	W	993.0	69.7	W	127.4	—	W	W	244.2
August 1997 .....	W	W	891.7	58.4	W	60.4	—	—	14.1	W
September 1996 .....	W	W	853.9	44.8	W	111.2	—	W	W	W
<b>West Virginia</b>										
September 1997 .....	W	W	W	6.8	0.7	9.7	W	—	W	66.3
August 1997 .....	W	W	W	6.2	0.2	W	—	—	—	W
September 1996 .....	W	W	W	4.2	1.3	12.6	W	W	—	W
<b>PAD District II</b>										
September 1997 .....	35.9	245.1	8,670.3	1,266.7	W	486.4	W	547.6	683.9	10,549.6
August 1997 .....	34.8	269.4	8,337.3	1,282.9	W	234.5	121.9	202.5	549.1	9,933.2
September 1996 .....	27.0	208.6	9,068.1	1,316.8	W	506.7	130.0	523.9	723.0	10,927.1
<b>Illinois</b>										
September 1997 .....	W	W	1,985.6	72.5	2.7	96.8	W	22.5	W	1,360.9
August 1997 .....	W	W	1,939.3	106.6	4.1	W	W	13.7	W	1,019.3
September 1996 .....	W	W	1,831.9	152.1	1.6	34.8	W	21.8	W	1,579.7
<b>Indiana</b>										
September 1997 .....	W	21.0	1,065.5	67.2	W	52.8	W	15.7	W	470.9
August 1997 .....	W	18.7	985.2	145.9	W	22.4	W	11.1	W	521.6
September 1996 .....	W	14.1	1,635.3	161.8	W	35.7	W	18.8	W	582.2
<b>Iowa</b>										
September 1997 .....	W	12.8	36.9	31.1	—	4.0	W	44.8	W	315.3
August 1997 .....	W	17.0	40.1	23.9	—	1.5	W	23.8	W	437.2
September 1996 .....	W	W	74.0	19.5	—	1.9	W	55.2	W	577.1
<b>Kansas</b>										
September 1997 .....	W	W	143.9	31.4	—	4.1	—	61.8	W	3,629.2
August 1997 .....	W	W	W	34.5	—	1.8	—	10.2	W	3,547.6
September 1996 .....	W	14.9	W	35.3	—	3.7	W	46.4	W	3,079.4
<b>Kentucky</b>										
September 1997 .....	1.7	W	454.7	87.6	0.4	44.6	—	W	W	460.8
August 1997 .....	W	W	238.6	67.0	W	18.4	—	—	W	384.6
September 1996 .....	W	4.3	430.0	W	0.4	43.6	W	W	W	491.8
<b>Michigan</b>										
September 1997 .....	0.8	34.6	861.8	83.1	0.8	55.8	W	14.1	W	623.7
August 1997 .....	W	31.2	944.0	75.3	0.5	32.2	W	7.5	W	650.1
September 1996 .....	W	W	817.3	92.7	1.8	146.5	W	14.8	W	702.3
<b>Minnesota</b>										
September 1997 .....	W	NA	1,094.4	107.6	W	14.1	W	105.1	124.9	641.6
August 1997 .....	W	W	W	110.8	W	6.8	W	14.0	83.8	697.5
September 1996 .....	W	W	1,075.3	136.2	W	14.7	W	87.6	W	671.1
<b>Missouri</b>										
September 1997 .....	W	W	272.5	114.5	—	W	W	12.1	W	798.2
August 1997 .....	W	W	328.1	113.9	—	0.8	W	6.5	W	544.9
September 1996 .....	W	13.8	366.9	64.0	—	7.8	W	14.8	—	880.2

See footnotes at end of table.

**Table 45. Refiner Volumes of Aviation Fuels, Kerosene, No. 1 Distillate, and Propane (Consumer Grade) by PAD District and State**  
(Thousand Gallons per Day) — Continued

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene		No. 1 Distillate		Propane (Consumer Grade)	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Nebraska</b>										
September 1997 .....	W	W	86.8	27.4	—	W	—	35.7	—	241.0
August 1997 .....	W	W	88.7	25.5	—	—	—	W	—	283.2
September 1996 .....	W	W	90.4	22.6	—	W	1.0	53.7	—	234.0
<b>North Dakota</b>										
September 1997 .....	W	W	13.1	W	—	W	W	39.8	W	168.0
August 1997 .....	W	W	13.3	7.8	—	—	W	8.4	W	192.6
September 1996 .....	W	W	W	9.7	—	W	W	52.7	W	188.9
<b>Ohio</b>										
September 1997 .....	W	46.8	1,116.6	243.7	7.6	107.0	W	10.0	W	531.0
August 1997 .....	10.3	43.9	1,060.7	212.4	6.0	47.6	W	7.3	W	423.8
September 1996 .....	W	33.3	1,074.3	249.1	7.4	108.6	W	6.7	W	552.0
<b>Oklahoma</b>										
September 1997 .....	6.3	6.2	396.2	263.8	—	W	W	W	13.5	467.6
August 1997 .....	W	5.6	434.8	245.2	—	2.9	—	W	W	433.1
September 1996 .....	W	10.4	373.6	161.1	—	2.6	W	W	W	555.9
<b>South Dakota</b>										
September 1997 .....	W	7.8	17.7	W	—	W	W	36.6	W	103.7
August 1997 .....	W	W	19.9	15.0	—	W	—	8.9	W	113.2
September 1996 .....	W	W	20.6	W	—	1.0	W	46.8	W	126.5
<b>Tennessee</b>										
September 1997 .....	W	19.3	955.3	60.2	W	89.7	—	—	W	320.7
August 1997 .....	W	20.1	876.8	39.8	W	32.9	—	—	W	302.2
September 1996 .....	5.6	12.2	905.7	61.7	W	96.9	—	—	W	292.8
<b>Wisconsin</b>										
September 1997 .....	—	14.2	169.3	56.3	W	7.5	W	76.6	81.5	417.1
August 1997 .....	W	20.6	141.6	59.3	—	3.0	W	48.0	W	382.4
September 1996 .....	W	W	190.6	39.6	W	7.3	3.6	101.4	W	413.3
<b>PAD District III</b>										
September 1997 .....	25.1	111.3	11,497.8	4,529.2	3.0	494.3	—	W	2,211.4	14,403.6
August 1997 .....	25.4	129.8	12,681.3	5,968.9	W	350.5	—	NA	1,538.7	12,098.6
September 1996 .....	21.9	128.8	10,922.2	4,232.9	2.0	249.0	—	27.5	3,195.7	12,256.5
<b>Alabama</b>										
September 1997 .....	W	8.0	131.1	41.6	W	11.1	—	—	W	305.4
August 1997 .....	W	7.3	128.1	32.6	W	6.6	—	—	W	260.5
September 1996 .....	W	7.4	118.9	31.0	W	11.7	—	—	W	393.7
<b>Arkansas</b>										
September 1997 .....	W	W	79.1	50.5	—	W	—	—	W	221.8
August 1997 .....	W	W	82.5	183.2	—	W	—	—	W	142.8
September 1996 .....	W	W	80.8	41.8	—	W	—	—	W	209.3
<b>Louisiana</b>										
September 1997 .....	3.0	9.6	2,971.6	1,088.1	W	101.9	—	—	965.7	1,161.1
August 1997 .....	W	8.9	2,712.8	1,150.5	—	W	—	—	W	1,211.5
September 1996 .....	2.9	10.3	2,595.7	794.9	W	102.5	—	W	961.8	1,313.8
<b>Mississippi</b>										
September 1997 .....	W	W	873.0	191.4	W	4.5	—	—	W	469.9
August 1997 .....	W	9.4	630.1	155.7	W	W	—	—	W	442.6
September 1996 .....	W	W	537.7	354.7	W	W	—	—	W	618.9
<b>New Mexico</b>										
September 1997 .....	W	W	122.9	NA	—	W	—	1.7	W	412.3
August 1997 .....	W	W	124.9	NA	—	W	—	W	W	319.9
September 1996 .....	W	W	156.1	18.5	—	—	—	2.6	W	481.3
<b>Texas</b>										
September 1997 .....	11.4	65.9	7,320.2	3,131.9	W	373.7	—	W	1,136.2	11,833.1
August 1997 .....	9.5	81.2	9,002.9	4,414.3	W	156.5	—	W	1,118.9	9,721.3
September 1996 .....	8.9	84.2	7,432.9	2,992.1	W	118.9	—	W	2,121.1	9,239.5
<b>PAD District IV</b>										
September 1997 .....	14.0	24.8	1,503.5	206.5	—	7.4	W	76.0	28.8	1,040.3
August 1997 .....	16.6	39.0	1,571.5	264.5	—	4.5	0.6	49.8	24.9	960.2
September 1996 .....	11.7	30.9	1,445.7	259.5	—	8.1	6.5	112.8	39.8	1,292.9
<b>Colorado</b>										
September 1997 .....	W	W	659.9	W	—	6.1	W	23.7	W	277.8
August 1997 .....	W	W	684.0	W	—	2.3	—	13.7	W	202.3
September 1996 .....	2.8	14.5	658.8	93.3	—	6.8	W	22.6	W	590.7

See footnotes at end of table.

**Table 45. Refiner Volumes of Aviation Fuels, Kerosene, No. 1 Distillate, and Propane (Consumer Grade) by PAD District and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene		No. 1 Distillate		Propane (Consumer Grade)	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Idaho</b>										
September 1997 .....	W	W	64.7	13.4	—	W	W	8.1	W	W
August 1997 .....	W	W	67.4	14.4	—	W	W	8.2	W	W
September 1996 .....	W	W	W	22.7	—	W	W	16.9	W	W
<b>Montana</b>										
September 1997 .....	W	—	74.6	5.1	—	W	W	24.1	W	215.3
August 1997 .....	W	W	94.3	5.2	—	W	W	15.6	W	251.2
September 1996 .....	W	W	80.0	W	—	W	W	38.1	W	224.6
<b>Utah</b>										
September 1997 .....	W	6.7	689.8	18.5	—	W	—	3.9	W	W
August 1997 .....	W	9.2	710.7	22.8	—	W	—	4.8	W	W
September 1996 .....	W	7.3	651.1	24.2	—	W	W	16.2	W	W
<b>Wyoming</b>										
September 1997 .....	W	W	14.5	W	—	—	1.5	16.1	W	422.3
August 1997 .....	W	W	15.1	W	—	W	W	7.5	W	396.7
September 1996 .....	W	2.0	W	W	—	—	1.3	19.1	W	351.5
<b>PAD District V</b>										
September 1997 .....	37.8	224.3	16,041.9	2,635.6	W	NA	104.4	217.8	79.8	1,975.3
August 1997 .....	52.3	231.8	16,215.7	2,603.7	W	NA	103.1	168.9	81.3	1,847.8
September 1996 .....	40.1	216.0	16,154.1	2,340.2	W	48.5	67.7	216.6	81.2	1,854.0
<b>Alaska</b>										
September 1997 .....	W	72.9	2,622.6	396.2	—	W	W	193.7	W	W
August 1997 .....	W	49.2	2,018.9	256.2	—	—	W	153.7	W	W
September 1996 .....	W	64.9	1,887.1	169.3	—	—	W	189.8	W	W
<b>Arizona</b>										
September 1997 .....	W	12.1	662.1	NA	—	W	—	—	—	102.0
August 1997 .....	W	14.2	781.3	W	W	W	—	—	—	124.6
September 1996 .....	5.0	12.2	734.3	99.7	—	—	—	—	NA	69.6
<b>California</b>										
September 1997 .....	13.5	85.1	9,449.8	W	—	NA	—	—	W	1,244.5
August 1997 .....	17.7	102.3	9,781.2	1,407.2	—	NA	—	—	W	1,231.0
September 1996 .....	15.8	84.5	9,853.4	1,443.9	W	19.1	W	W	W	1,174.1
<b>Hawaii</b>										
September 1997 .....	—	W	468.0	W	—	—	—	—	W	W
August 1997 .....	—	W	505.5	W	—	—	—	—	W	W
September 1996 .....	W	W	598.6	W	—	—	—	—	W	W
<b>Nevada</b>										
September 1997 .....	W	14.3	628.6	75.6	—	W	—	—	W	W
August 1997 .....	W	14.3	616.3	68.8	—	—	—	—	W	W
September 1996 .....	W	16.7	855.5	86.7	—	—	W	—	W	49.9
<b>Oregon</b>										
September 1997 .....	W	W	524.4	55.7	W	NA	—	NA	W	W
August 1997 .....	W	W	638.4	49.3	NA	W	—	NA	W	W
September 1996 .....	W	W	552.7	W	—	NA	W	W	W	5.6
<b>Washington</b>										
September 1997 .....	W	W	1,686.5	159.4	—	17.0	W	18.6	W	477.8
August 1997 .....	W	W	1,874.2	146.9	—	10.9	W	NA	W	364.6
September 1996 .....	W	W	1,672.4	130.6	—	19.3	W	19.7	W	458.7

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Notes: PAD District and U.S. totals equal the sum of the volumes for all States. In certain PAD Districts, however, volumes are not shown for every State.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 46. Refiner No. 2 Distillate, Diesel Fuel, and Fuel Oil Volumes  
by PAD District and State**  
(Thousand Gallons per Day)

Geographic Area Month	No. 2 Diesel Fuel						No. 2 Fuel Oil		No. 2 Distillate	
	Low-Sulfur		High-Sulfur		Total		Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale				
United States										
September 1997 .....	15,449.3	80,414.3	7,727.5	14,000.5	23,176.8	94,414.8	2,932.4	26,975.9	26,109.1	121,390.7
August 1997 .....	13,998.1	73,174.4	6,936.1	14,331.8	20,934.2	87,506.3	2,997.2	24,967.8	23,931.4	112,474.1
September 1996 .....	14,181.5	71,610.5	7,172.2	13,616.1	21,353.8	85,226.6	2,628.2	26,767.0	23,981.9	111,993.6
PAD District I										
September 1997 .....	4,589.4	17,639.9	1,320.3	2,436.7	5,909.7	20,076.6	824.3	14,759.0	6,733.9	34,835.7
August 1997 .....	4,202.9	15,995.6	1,249.9	2,102.7	5,452.8	18,098.3	999.8	12,581.4	6,452.7	30,679.7
September 1996 .....	4,313.8	16,137.0	1,153.9	2,278.9	5,467.7	18,415.9	837.1	12,880.5	6,304.8	31,296.4
Subdistrict IA										
September 1997 .....	W	W	W	W	426.9	2,055.5	23.8	1,654.6	450.7	3,710.2
August 1997 .....	W	W	W	W	285.0	1,206.0	20.1	1,051.0	305.1	2,257.1
September 1996 .....	W	W	W	W	319.9	1,464.8	66.2	2,018.8	386.2	3,483.6
Connecticut										
September 1997 .....	W	W	—	W	W	574.8	W	472.9	154.0	1,047.7
August 1997 .....	W	W	—	W	W	349.4	W	350.0	142.4	699.4
September 1996 .....	100.9	W	W	W	W	322.6	W	494.9	115.0	817.6
Maine										
September 1997 .....	W	W	W	W	W	446.8	W	232.7	11.2	679.5
August 1997 .....	W	W	—	W	W	157.3	W	157.5	11.4	314.7
September 1996 .....	W	W	W	W	W	163.0	W	220.9	22.7	383.9
Massachusetts										
September 1997 .....	W	W	W	W	227.5	784.4	6.4	317.6	233.9	1,102.0
August 1997 .....	W	W	W	W	97.7	425.9	5.9	346.5	103.5	772.4
September 1996 .....	124.1	W	W	W	W	488.9	W	919.4	177.4	1,408.3
New Hampshire										
September 1997 .....	9.1	27.8	W	W	W	W	W	W	10.9	44.8
August 1997 .....	5.5	W	W	—	W	W	W	W	6.8	31.6
September 1996 .....	W	W	—	—	W	W	W	W	27.8	111.9
Rhode Island										
September 1997 .....	26.8	W	—	W	26.8	201.6	—	606.2	26.8	807.8
August 1997 .....	W	W	—	W	W	235.3	W	185.5	25.3	420.8
September 1996 .....	W	W	—	W	W	394.3	W	315.1	24.3	709.5
Vermont										
September 1997 .....	10.7	14.5	W	W	W	W	W	W	14.0	28.4
August 1997 .....	W	10.3	W	W	15.6	W	—	W	15.6	18.1
September 1996 .....	14.2	W	W	—	W	W	W	W	19.0	52.5
Subdistrict IB										
September 1997 .....	W	W	W	W	1,876.8	7,506.5	452.3	10,337.7	2,329.1	17,844.2
August 1997 .....	W	W	W	W	1,690.5	6,680.0	447.7	8,558.2	2,138.3	15,238.2
September 1996 .....	W	W	W	W	1,761.7	7,892.1	396.5	7,909.1	2,158.2	15,801.2
Delaware										
September 1997 .....	31.5	W	W	—	W	W	W	W	W	W
August 1997 .....	20.4	W	W	—	W	W	W	W	W	W
September 1996 .....	32.5	W	W	W	W	W	W	W	W	W
District of Columbia										
September 1997 .....	W	W	—	—	W	W	W	W	W	W
August 1997 .....	W	W	—	—	W	W	W	W	W	W
September 1996 .....	W	W	—	—	W	W	—	W	W	W
Maryland										
September 1997 .....	W	533.4	W	29.4	306.1	562.7	132.8	346.1	438.8	908.8
August 1997 .....	W	596.7	W	28.9	292.6	625.6	78.6	300.7	371.2	926.3
September 1996 .....	206.1	470.0	5.4	121.6	211.5	591.6	W	301.5	260.4	893.1
New Jersey										
September 1997 .....	365.6	2,485.0	156.1	84.1	521.7	2,569.1	96.7	5,269.0	618.4	7,838.1
August 1997 .....	332.0	2,008.9	136.3	93.4	468.3	2,102.3	112.6	3,248.5	580.9	5,350.8
September 1996 .....	W	2,872.8	W	349.3	438.7	3,222.1	83.2	3,318.8	521.9	6,540.9
New York										
September 1997 .....	240.1	W	14.5	W	254.6	1,173.5	88.4	2,432.1	343.0	3,605.6
August 1997 .....	W	W	W	W	225.0	1,098.9	78.3	2,662.9	303.3	3,761.8
September 1996 .....	265.5	1,018.3	22.6	22.8	288.1	1,041.2	144.2	1,870.7	432.3	2,911.8
Pennsylvania										
September 1997 .....	629.8	2,746.4	128.1	235.5	757.9	2,981.9	88.5	2,212.0	846.4	5,193.9
August 1997 .....	565.3	2,479.7	112.5	185.9	677.8	2,665.6	81.5	2,293.1	759.3	4,958.6
September 1996 .....	686.2	W	98.9	W	785.1	2,760.9	104.2	2,144.2	889.3	4,905.1

See footnotes at end of table.

**Table 46. Refiner No. 2 Distillate, Diesel Fuel, and Fuel Oil Volumes  
by PAD District and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	No. 2 Diesel Fuel						No. 2 Fuel Oil		No. 2 Distillate	
	Low-Sulfur		High-Sulfur		Total		Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale				
Subdistrict IC										
September 1997 .....	2,694.3	8,978.1	911.7	1,536.5	3,606.0	10,514.6	348.2	2,766.7	3,954.1	13,281.3
August 1997 .....	2,580.9	8,653.1	896.4	1,559.2	3,477.3	10,212.3	532.0	2,972.1	4,009.3	13,184.4
September 1996 .....	2,490.0	7,784.9	896.0	1,274.1	3,386.1	9,059.0	374.4	2,952.6	3,760.5	12,011.6
Florida										
September 1997 .....	W	2,152.0	240.3	537.9	W	2,689.9	W	532.6	1,382.7	3,222.5
August 1997 .....	W	2,112.9	279.1	572.4	W	2,685.3	W	752.7	1,431.2	3,438.0
September 1996 .....	890.2	1,958.7	357.1	437.6	1,247.2	2,396.3	12.0	515.3	1,259.3	2,911.6
Georgia										
September 1997 .....	662.1	1,941.5	155.0	276.6	817.2	2,218.1	24.3	451.2	841.5	2,669.3
August 1997 .....	636.5	1,899.7	150.2	303.3	786.6	2,203.0	33.2	450.3	819.8	2,653.3
September 1996 .....	683.0	1,538.4	125.7	199.2	808.7	1,737.5	25.5	492.1	834.2	2,229.7
North Carolina										
September 1997 .....	330.0	1,809.0	133.5	362.9	463.5	2,171.9	96.7	570.4	560.2	2,742.3
August 1997 .....	315.5	1,716.0	124.6	291.1	440.2	2,007.0	120.2	739.4	560.4	2,746.4
September 1996 .....	327.4	1,710.6	79.5	301.8	406.9	2,012.4	214.2	630.9	621.1	2,643.3
South Carolina										
September 1997 .....	W	873.3	W	W	279.5	W	26.5	W	306.0	1,236.2
August 1997 .....	W	864.2	W	109.5	279.0	973.6	37.5	247.5	316.5	1,221.1
September 1996 .....	212.8	W	40.8	W	253.6	767.0	31.6	272.1	285.2	1,039.1
Virginia										
September 1997 .....	320.7	1,824.3	193.6	199.2	514.4	2,023.5	50.2	701.4	564.5	2,725.0
August 1997 .....	279.5	1,765.3	170.8	219.5	450.3	1,984.8	51.8	563.3	502.1	2,548.2
September 1996 .....	278.8	1,583.4	167.2	203.2	446.0	1,786.6	28.8	806.4	474.8	2,593.0
West Virginia										
September 1997 .....	99.8	378.0	W	W	W	W	W	W	299.2	686.0
August 1997 .....	89.5	295.0	W	63.5	W	358.5	W	218.9	379.4	577.4
September 1996 .....	97.8	W	125.9	W	223.7	359.2	62.3	235.8	286.0	594.9
PAD District II										
September 1997 .....	5,764.7	25,094.2	2,076.7	3,023.0	7,841.4	28,117.3	1,617.9	7,412.1	9,459.3	35,529.3
August 1997 .....	5,253.2	22,346.4	2,181.4	2,489.8	7,434.6	24,836.2	1,488.6	7,042.9	8,923.2	31,879.1
September 1996 .....	5,410.4	21,598.6	2,041.5	3,210.0	7,451.9	24,808.6	1,455.2	8,693.1	8,907.1	33,501.7
Illinois										
September 1997 .....	611.5	2,125.7	75.8	149.0	687.3	2,274.6	206.0	1,952.9	893.3	4,227.6
August 1997 .....	553.5	1,781.4	99.8	165.5	653.3	1,946.9	205.4	1,726.1	858.6	3,673.0
September 1996 .....	597.7	1,523.6	W	378.6	W	1,902.2	W	1,584.1	826.2	3,486.3
Indiana										
September 1997 .....	925.6	1,986.3	153.5	284.2	1,079.1	2,270.5	359.1	560.3	1,438.2	2,830.9
August 1997 .....	836.8	1,741.0	247.1	134.0	1,083.9	1,875.0	249.8	893.0	1,333.7	2,768.0
September 1996 .....	793.7	1,783.1	W	334.0	W	2,117.1	W	810.8	1,568.6	2,927.9
Iowa										
September 1997 .....	157.5	1,775.3	W	72.3	W	1,847.6	W	191.1	209.5	2,038.7
August 1997 .....	125.1	1,408.2	W	39.5	W	1,447.7	W	185.2	212.6	1,632.9
September 1996 .....	W	1,453.9	—	76.3	W	1,530.2	W	349.2	332.7	1,879.4
Kansas										
September 1997 .....	152.7	1,796.8	W	305.5	W	2,102.2	W	288.0	319.9	2,390.2
August 1997 .....	148.2	1,935.9	W	166.4	W	2,102.3	W	294.0	174.1	2,396.3
September 1996 .....	W	1,389.5	—	175.8	W	1,565.3	W	426.5	163.4	1,991.8
Kentucky										
September 1997 .....	387.0	1,033.5	323.7	160.7	710.7	1,194.2	77.1	553.4	787.8	1,747.7
August 1997 .....	331.6	902.9	329.6	204.5	661.3	1,107.5	47.5	499.4	708.7	1,606.9
September 1996 .....	313.1	889.3	335.1	203.6	648.2	1,092.9	36.7	585.4	684.9	1,678.2
Michigan										
September 1997 .....	554.2	W	89.8	W	644.0	1,732.6	70.6	745.5	714.5	2,478.2
August 1997 .....	510.7	1,565.9	71.8	128.9	582.5	1,694.8	62.1	684.5	644.6	2,379.3
September 1996 .....	530.0	1,486.0	17.3	167.1	547.4	1,653.2	80.2	886.6	627.6	2,539.8
Minnesota										
September 1997 .....	178.8	1,640.8	18.6	279.0	197.4	1,919.8	123.1	427.7	320.4	2,347.5
August 1997 .....	150.7	1,184.1	18.3	214.8	169.0	1,399.0	153.4	317.1	322.4	1,716.0
September 1996 .....	W	1,514.6	15.1	341.7	W	1,856.3	W	588.7	307.2	2,445.0
Missouri										
September 1997 .....	239.6	W	W	115.5	W	W	W	W	270.3	2,180.8
August 1997 .....	W	1,717.5	18.7	W	W	W	W	W	233.4	1,972.9
September 1996 .....	259.3	1,562.9	W	108.4	W	1,671.4	W	286.7	289.5	1,958.0

See footnotes at end of table.



**Table 46. Refiner No. 2 Distillate, Diesel Fuel, and Fuel Oil Volumes  
by PAD District and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	No. 2 Diesel Fuel						No. 2 Fuel Oil		No. 2 Distillate	
	Low-Sulfur		High-Sulfur		Total		Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale				
Nebraska										
September 1997 .....	30.8	974.2	W	127.5	W	1,101.7	W	83.7	183.8	1,185.3
August 1997 .....	26.4	960.0	W	181.9	W	1,141.9	W	141.3	168.3	1,283.2
September 1996 .....	W	872.6	—	87.0	W	959.6	W	314.2	32.9	1,273.8
North Dakota										
September 1997 .....	17.5	737.7	—	W	17.5	W	W	W	W	956.3
August 1997 .....	W	659.7	W	107.7	17.9	767.5	W	101.4	W	868.8
September 1996 .....	5.3	541.5	—	84.7	5.3	626.2	W	135.2	W	761.4
Ohio										
September 1997 .....	W	2,112.0	W	268.9	1,839.7	2,380.9	65.4	1,052.9	1,905.2	3,433.8
August 1997 .....	W	1,974.0	W	152.6	1,773.9	2,126.6	26.9	885.2	1,800.8	3,011.9
September 1996 .....	1,366.5	1,521.6	437.4	270.5	1,803.9	1,792.1	51.8	1,112.7	1,855.7	2,904.8
Oklahoma										
September 1997 .....	239.1	3,056.6	W	342.9	W	3,399.6	W	133.0	919.7	3,532.6
August 1997 .....	217.5	2,502.2	W	274.7	W	2,776.8	W	194.8	1,160.5	2,971.6
September 1996 .....	W	2,984.4	451.0	289.1	W	3,273.5	W	267.5	878.2	3,540.9
South Dakota										
September 1997 .....	9.0	763.8	W	16.6	W	780.4	W	56.9	W	837.3
August 1997 .....	5.5	648.4	W	W	W	W	W	W	W	704.9
September 1996 .....	W	617.7	W	20.6	W	638.2	W	120.2	W	758.5
Tennessee										
September 1997 .....	595.8	1,887.4	249.9	464.9	845.7	2,352.3	32.2	586.1	877.9	2,938.4
August 1997 .....	597.5	1,858.2	184.4	424.7	781.9	2,282.9	27.3	534.8	809.2	2,817.7
September 1996 .....	610.5	1,831.0	W	409.3	W	2,240.3	W	682.8	858.1	2,923.1
Wisconsin										
September 1997 .....	W	1,759.2	—	175.4	W	1,934.7	W	469.5	392.1	2,404.2
August 1997 .....	W	1,506.9	—	183.4	W	1,690.3	W	385.4	313.5	2,075.6
September 1996 .....	241.6	1,626.8	W	263.3	W	1,890.1	W	542.7	308.2	2,432.8
PAD District III										
September 1997 .....	2,007.5	21,429.4	2,253.3	6,007.5	4,260.8	27,436.9	302.4	4,376.8	4,563.2	31,813.7
August 1997 .....	1,708.6	19,381.6	1,798.9	6,858.5	3,507.5	26,240.1	327.2	4,955.5	3,834.7	31,195.6
September 1996 .....	1,791.2	18,160.1	W	5,174.6	W	23,334.7	W	4,896.8	4,124.8	28,231.5
Alabama										
September 1997 .....	194.0	1,152.7	141.5	334.8	335.5	1,487.4	22.6	360.7	358.1	1,848.1
August 1997 .....	180.5	1,116.7	116.0	327.6	296.5	1,444.4	17.4	369.5	313.9	1,813.9
September 1996 .....	170.6	997.3	157.3	W	327.9	W	10.4	W	338.3	1,595.8
Arkansas										
September 1997 .....	233.0	1,301.0	W	624.2	W	1,925.2	W	110.4	285.3	2,035.6
August 1997 .....	176.5	1,186.1	W	643.0	W	1,829.0	W	96.5	194.2	1,925.5
September 1996 .....	178.6	1,083.6	W	766.7	W	1,850.4	W	80.7	228.8	1,931.1
Louisiana										
September 1997 .....	W	1,815.6	504.5	2,780.4	W	4,596.0	W	1,445.4	668.3	6,041.4
August 1997 .....	W	1,558.7	455.0	2,782.3	W	4,341.0	W	1,594.9	614.2	5,935.9
September 1996 .....	W	1,689.8	564.9	2,225.6	W	3,915.4	W	1,264.0	862.0	5,179.4
Mississippi										
September 1997 .....	131.9	1,264.3	W	538.1	W	1,802.4	W	213.7	207.9	2,016.1
August 1997 .....	135.3	1,204.1	W	1,200.7	W	2,404.9	W	251.7	197.5	2,656.5
September 1996 .....	134.3	1,623.5	W	491.9	W	2,115.4	W	184.5	206.3	2,299.9
New Mexico										
September 1997 .....	W	834.0	W	88.6	148.7	922.7	—	—	148.7	922.7
August 1997 .....	W	774.6	W	80.5	129.9	855.1	—	—	129.9	855.1
September 1996 .....	W	731.6	W	W	158.8	W	—	W	158.8	806.1
Texas										
September 1997 .....	1,189.4	15,061.7	1,447.8	1,641.5	2,637.2	16,703.2	257.6	2,246.6	2,894.8	18,949.9
August 1997 .....	973.0	13,541.3	1,118.3	1,824.4	2,091.4	15,365.7	293.7	2,642.9	2,385.0	18,008.6
September 1996 .....	W	12,034.3	1,328.6	1,318.3	W	13,352.6	W	3,066.5	2,330.5	16,419.1
PAD District IV										
September 1997 .....	857.0	4,046.0	W	W	W	W	W	W	1,524.4	4,434.1
August 1997 .....	840.0	4,066.1	W	W	W	W	W	W	1,401.5	4,485.3
September 1996 .....	728.3	3,669.7	W	W	W	W	W	W	1,365.8	4,099.9
Colorado										
September 1997 .....	146.0	1,315.6	W	W	W	W	W	W	332.2	1,341.1
August 1997 .....	136.1	1,224.3	W	W	W	W	W	W	324.6	1,242.1
September 1996 .....	W	1,100.7	W	W	356.4	W	—	W	356.4	1,161.4

See footnotes at end of table.

**Table 46. Refiner No. 2 Distillate, Diesel Fuel, and Fuel Oil Volumes  
by PAD District and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	No. 2 Diesel Fuel						No. 2 Fuel Oil		No. 2 Distillate		
	Low-Sulfur		High-Sulfur		Total		Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale					
<b>Idaho</b>											
September 1997 .....	W	536.8	W	162.0	W	698.8	W	—	116.8	698.8	
August 1997 .....	W	571.4	W	175.8	W	747.2	W	—	128.8	747.2	
September 1996 .....	23.7	485.3	W	W	W	W	W	W	83.8	669.9	
<b>Montana</b>											
September 1997 .....	175.6	W	—	W	175.6	778.2	—	—	175.6	778.2	
August 1997 .....	182.8	W	—	W	182.8	824.8	—	—	182.8	824.8	
September 1996 .....	151.3	620.0	—	W	151.3	W	—	W	151.3	620.9	
<b>Utah</b>											
September 1997 .....	243.1	615.9	W	190.5	W	806.3	W	—	351.1	806.3	
August 1997 .....	242.9	733.9	W	206.3	W	940.1	W	—	349.2	940.1	
September 1996 .....	218.6	692.1	W	178.6	W	870.7	W	—	343.5	870.7	
<b>Wyoming</b>											
September 1997 .....	W	W	W	W	548.7	809.7	—	—	548.7	809.7	
August 1997 .....	W	W	W	W	416.2	731.0	—	—	416.2	731.0	
September 1996 .....	W	771.5	W	W	430.8	W	—	W	430.8	777.1	
<b>PAD District V</b>											
September 1997 .....	2,230.8	12,204.8	W	W	W	W	W	W	3,828.3	14,777.8	
August 1997 .....	1,993.4	11,384.7	W	W	W	W	W	W	3,319.3	14,234.4	
September 1996 .....	1,937.9	12,045.0	1,220.3	W	3,158.2	W	121.2	W	3,279.4	14,864.0	
<b>Alaska</b>											
September 1997 .....	W	NA	W	W	W	W	82.6	404.5	174.9	688.2	
August 1997 .....	W	NA	W	W	60.5	W	W	324.4	138.7	714.3	
September 1996 .....	W	W	W	W	52.1	373.0	91.9	228.7	144.0	601.6	
<b>Arizona</b>											
September 1997 .....	W	W	W	W	395.5	879.3	—	—	395.5	879.3	
August 1997 .....	W	W	W	W	370.2	895.3	—	—	370.2	895.3	
September 1996 .....	W	821.8	W	W	352.7	W	—	W	352.7	928.1	
<b>California</b>											
September 1997 .....	W	8,160.7	W	W	1,674.1	W	—	W	1,674.1	8,608.4	
August 1997 .....	1,458.3	7,261.0	37.4	W	1,495.7	W	—	W	1,495.7	7,752.8	
September 1996 .....	1,412.9	7,734.4	410.0	W	1,822.9	W	—	W	1,822.9	8,467.6	
<b>Hawaii</b>											
September 1997 .....	W	50.9	W	NA	W	128.6	—	—	W	128.6	
August 1997 .....	W	55.8	W	80.9	W	136.8	—	—	W	136.8	
September 1996 .....	38.1	62.8	W	71.2	W	134.0	W	—	W	134.0	
<b>Nevada</b>											
September 1997 .....	W	W	W	W	86.0	448.4	—	—	W	448.4	
August 1997 .....	W	W	W	W	76.6	485.0	—	—	W	485.0	
September 1996 .....	W	W	W	W	101.4	518.4	—	—	W	518.4	
<b>Oregon</b>											
September 1997 .....	W	915.4	W	442.7	336.6	1,358.0	—	—	336.6	1,358.0	
August 1997 .....	W	1,039.9	W	460.6	273.8	1,500.5	—	—	273.8	1,500.5	
September 1996 .....	62.3	W	W	469.9	W	W	W	W	259.2	1,734.4	
<b>Washington</b>											
September 1997 .....	108.9	1,872.1	W	788.3	W	2,660.4	W	6.4	833.5	2,666.8	
August 1997 .....	W	1,766.1	W	W	613.9	W	NA	W	655.8	2,749.7	
September 1996 .....	101.0	1,685.0	150.7	784.9	251.6	2,469.9	24.2	10.1	275.8	2,480.0	

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Notes: PAD District and U.S. totals equal the sum of the volumes for all States. In certain PAD Districts, however, volumes are not shown for every State.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 47. Refiner Residual Fuel Oil and No. 4 Fuel Volumes by PAD District**  
(Thousand Gallons per Day)

Geographic Area Month	Residual Fuel Oil						No. 4 Fuel <sup>a</sup>	
	Sulfur Less Than or Equal to 1 Percent		Sulfur Greater Than 1 Percent		Total		Sales to End Users	Sales for Resale
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale		
United States								
September 1997 ..	2,856.8	4,665.4	10,354.9	6,589.0	13,211.7	11,254.4	201.6	60.7
August 1997 .....	2,941.5	5,134.6	9,408.2	7,170.6	12,349.7	12,305.3	181.8	150.4
September 1996 ..	2,255.4	4,349.0	8,689.0	7,465.6	10,944.4	11,814.6	178.3	240.0
PAD District I								
September 1997 ..	1,684.9	3,579.8	3,690.2	1,797.0	5,375.1	5,376.8	W	42.6
August 1997 .....	2,000.3	3,867.7	3,906.1	1,827.7	5,906.4	5,695.4	W	50.8
September 1996 ..	W	3,039.6	W	2,508.6	3,709.1	5,548.1	117.6	108.9
Subdistrict IA								
September 1997 ..	W	W	W	W	W	W	W	W
August 1997 .....	W	W	W	W	W	W	W	W
September 1996 ..	W	W	W	W	W	W	W	W
Subdistrict IB								
September 1997 ..	1,200.6	2,140.6	1,759.7	841.5	2,960.3	2,982.1	W	38.9
August 1997 .....	W	W	W	W	2,902.1	3,913.4	W	46.5
September 1996 ..	W	1,999.0	W	830.2	2,324.7	2,829.2	W	54.9
Subdistrict IC								
September 1997 ..	W	W	W	W	W	W	11.6	W
August 1997 .....	641.0	W	W	W	W	W	7.1	W
September 1996 ..	W	W	1,269.5	W	W	W	8.8	W
PAD District II								
September 1997 ..	W	W	W	W	67.3	287.4	4.8	NA
August 1997 .....	W	W	W	W	58.0	407.1	5.3	W
September 1996 ..	W	W	W	W	185.6	494.4	17.5	W
PAD District III								
September 1997 ..	W	627.0	W	2,470.1	3,331.7	3,097.1	—	—
August 1997 .....	W	764.6	W	3,572.0	2,763.4	4,336.6	W	W
September 1996 ..	W	813.7	W	3,524.7	3,321.7	4,338.4	—	W
PAD District IV								
September 1997 ..	W	W	W	W	13.5	59.6	—	—
August 1997 .....	W	W	W	W	12.3	61.9	—	—
September 1996 ..	—	W	11.7	W	11.7	68.7	W	—
PAD District V								
September 1997 ..	1,160.1	432.0	3,263.9	NA	4,424.1	NA	W	12.2
August 1997 .....	W	463.0	W	NA	3,609.7	NA	W	16.6
September 1996 ..	1,076.8	373.9	2,639.6	NA	3,716.4	1,365.0	W	33.1

Dash (–) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Prime Supplier  
Sales Volumes  
of Petroleum  
Products for  
Local  
Consumption**

**Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State**

(Thousand Gallons per Day)

Geographic Area Month	Regular				Midgrade			
	Conventional <sup>a</sup>	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
<b>United States</b>								
September 1997 .....	166,331.8	5,653.7	76,076.5	248,061.9	23,517.8	839.7	15,578.8	39,936.4
August 1997 .....	175,156.8	4,634.9	77,446.4	257,238.1	25,091.2	646.7	16,579.1	42,317.0
September 1996 .....	164,650.6	3,925.1	69,626.4	238,202.1	23,704.3	621.7	15,769.1	40,095.1
<b>PAD District I</b>								
September 1997 .....	49,789.9	—	31,109.3	80,899.2	9,292.0	—	6,367.0	15,658.9
August 1997 .....	52,070.6	—	31,731.0	83,801.6	9,912.1	—	6,852.4	16,764.5
September 1996 .....	47,211.1	—	29,374.5	76,585.6	9,359.4	—	6,658.9	16,018.4
<b>Subdistrict IA</b>								
September 1997 .....	1,739.2	—	10,422.2	12,161.4	228.0	—	1,677.8	1,905.8
August 1997 .....	1,860.8	—	10,721.5	12,582.4	272.3	—	1,853.3	2,125.5
September 1996 .....	1,640.0	—	9,705.4	11,345.4	244.9	—	1,846.7	2,091.7
<b>Connecticut</b>								
September 1997 .....	—	—	2,517.0	2,517.0	—	—	451.9	451.9
August 1997 .....	—	—	2,599.6	2,599.6	—	—	490.3	490.3
September 1996 .....	—	—	2,337.7	2,337.7	—	—	519.0	519.0
<b>Maine</b>								
September 1997 .....	863.4	—	1,070.5	1,933.9	102.1	—	118.7	220.8
August 1997 .....	934.7	—	1,165.5	2,100.3	123.3	—	145.2	268.5
September 1996 .....	837.2	—	1,046.3	1,883.5	113.1	—	150.6	263.7
<b>Massachusetts</b>								
September 1997 .....	—	—	5,101.5	5,101.5	—	—	837.2	837.2
August 1997 .....	—	—	5,118.3	5,118.3	—	—	912.7	912.7
September 1996 .....	—	—	4,645.6	4,645.6	—	—	876.6	876.6
<b>New Hampshire</b>								
September 1997 .....	293.0	—	716.6	1,009.5	46.7	—	103.6	150.3
August 1997 .....	331.3	—	721.5	1,052.7	65.7	—	108.0	173.7
September 1996 .....	280.2	—	628.3	908.5	50.7	—	105.5	156.2
<b>Rhode Island</b>								
September 1997 .....	—	—	1,016.6	1,016.6	—	—	166.5	166.5
August 1997 .....	—	—	1,116.6	1,116.6	—	—	197.1	197.1
September 1996 .....	—	—	1,047.5	1,047.5	—	—	195.0	195.0
<b>Vermont</b>								
September 1997 .....	582.8	—	—	582.8	79.2	—	—	79.2
August 1997 .....	594.9	—	—	594.9	83.2	—	—	83.2
September 1996 .....	522.6	—	—	522.6	81.2	—	—	81.2
<b>Subdistrict IB</b>								
September 1997 .....	13,325.9	—	17,380.5	30,706.4	1,620.2	—	3,831.6	5,451.8
August 1997 .....	14,164.2	—	17,587.7	31,751.9	1,816.0	—	4,089.8	5,905.8
September 1996 .....	12,383.4	—	16,459.7	28,843.1	1,834.8	—	3,912.6	5,747.4
<b>Delaware</b>								
September 1997 .....	—	—	697.5	697.5	—	—	178.1	178.1
August 1997 .....	—	—	829.4	829.4	—	—	217.9	217.9
September 1996 .....	—	—	634.0	634.0	—	—	163.0	163.0
<b>District of Columbia</b>								
September 1997 .....	—	—	139.0	139.0	—	—	82.6	82.6
August 1997 .....	—	—	139.6	139.6	—	—	84.5	84.5
September 1996 .....	—	—	137.3	137.3	—	—	80.9	80.9
<b>Maryland</b>								
September 1997 .....	502.6	—	3,055.4	3,558.0	91.8	—	844.2	936.0
August 1997 .....	W	—	W	3,518.5	103.3	—	867.2	970.5
September 1996 .....	461.2	—	2,884.2	3,345.4	102.7	—	857.5	960.2
<b>New Jersey</b>								
September 1997 .....	—	—	6,731.1	6,731.1	—	—	1,255.4	1,255.4
August 1997 .....	W	—	W	6,943.0	—	—	1,342.8	1,342.8
September 1996 .....	—	—	6,334.2	6,334.2	—	—	1,286.3	1,286.3
<b>New York</b>								
September 1997 .....	5,407.5	—	4,487.0	9,894.6	498.6	—	923.9	1,422.5
August 1997 .....	5,687.1	—	4,351.7	10,038.8	582.3	—	1,009.3	1,591.6
September 1996 .....	5,007.0	—	4,092.3	9,099.3	560.0	—	923.5	1,483.5
<b>Pennsylvania</b>								
September 1997 .....	7,415.7	—	2,270.4	9,686.1	1,029.7	—	547.4	1,577.1
August 1997 .....	7,953.1	—	2,329.6	10,282.6	1,130.4	—	568.0	1,698.4
September 1996 .....	6,915.2	—	2,377.7	9,292.9	1,172.1	—	601.4	1,773.6

See footnotes at end of table.

**Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium				All Grades			
	Conventional	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
<b>United States</b>								
September 1997 .....	32,715.4	730.2	21,745.3	55,190.9	222,565.0	7,223.6	113,400.5	343,189.2
August 1997 .....	34,865.1	564.1	23,235.0	58,664.2	235,113.1	5,845.7	117,260.5	358,219.3
September 1996 .....	33,781.3	687.3	22,432.4	56,901.0	222,136.3	5,234.1	107,827.9	335,198.3
<b>PAD District I</b>								
September 1997 .....	13,089.6	—	11,562.5	24,652.1	72,171.4	—	49,038.8	121,210.2
August 1997 .....	13,835.7	—	12,286.4	26,122.0	75,818.4	—	50,869.7	126,688.1
September 1996 .....	13,215.4	—	12,137.7	25,353.1	69,786.0	—	48,171.1	117,957.1
<b>Subdistrict IA</b>								
September 1997 .....	263.3	—	2,465.5	2,728.8	2,230.5	—	14,565.5	16,796.0
August 1997 .....	321.5	—	2,697.0	3,018.5	2,454.6	—	15,271.8	17,726.5
September 1996 .....	286.8	—	2,603.9	2,890.7	2,171.7	—	14,156.0	16,327.7
<b>Connecticut</b>								
September 1997 .....	—	—	675.1	675.1	—	—	3,643.9	3,643.9
August 1997 .....	—	—	722.9	722.9	—	—	3,812.8	3,812.8
September 1996 .....	—	—	715.3	715.3	—	—	3,572.0	3,572.0
<b>Maine</b>								
September 1997 .....	111.8	—	172.1	283.9	1,077.3	—	1,361.3	2,438.6
August 1997 .....	141.2	—	211.0	352.2	1,199.2	—	1,521.8	2,721.0
September 1996 .....	123.2	—	179.1	302.3	1,073.5	—	1,376.0	2,449.4
<b>Massachusetts</b>								
September 1997 .....	—	—	1,237.0	1,237.0	—	—	7,175.7	7,175.7
August 1997 .....	—	—	1,321.0	1,321.0	—	—	7,352.0	7,352.0
September 1996 .....	—	—	1,278.2	1,278.2	—	—	6,800.4	6,800.4
<b>New Hampshire</b>								
September 1997 .....	49.1	—	130.4	179.5	388.8	—	950.5	1,339.4
August 1997 .....	64.7	—	143.5	208.1	461.7	—	972.9	1,434.5
September 1996 .....	52.6	—	137.0	189.6	383.4	—	870.9	1,254.3
<b>Rhode Island</b>								
September 1997 .....	—	—	250.9	250.9	—	—	1,434.0	1,434.0
August 1997 .....	—	—	298.7	298.7	—	—	1,612.4	1,612.4
September 1996 .....	—	—	294.2	294.2	—	—	1,536.7	1,536.7
<b>Vermont</b>								
September 1997 .....	102.3	—	—	102.3	764.3	—	—	764.3
August 1997 .....	115.7	—	—	115.7	793.7	—	—	793.7
September 1996 .....	111.0	—	—	111.0	714.8	—	—	714.8
<b>Subdistrict IB</b>								
September 1997 .....	2,564.6	—	7,883.6	10,448.2	17,510.7	—	29,095.7	46,606.4
August 1997 .....	2,867.1	—	8,322.7	11,189.8	18,847.4	—	30,000.2	48,847.6
September 1996 .....	2,757.1	—	8,306.6	11,063.8	16,975.3	—	28,678.9	45,654.2
<b>Delaware</b>								
September 1997 .....	—	—	159.3	159.3	—	—	1,034.9	1,034.9
August 1997 .....	—	—	198.8	198.8	—	—	1,246.1	1,246.1
September 1996 .....	—	—	154.5	154.5	—	—	951.5	951.5
<b>District of Columbia</b>								
September 1997 .....	—	—	151.9	151.9	—	—	373.5	373.5
August 1997 .....	—	—	152.6	152.6	—	—	376.8	376.8
September 1996 .....	—	—	157.4	157.4	—	—	375.5	375.5
<b>Maryland</b>								
September 1997 .....	113.5	—	1,159.0	1,272.5	708.0	—	5,058.6	5,766.6
August 1997 .....	126.5	—	1,197.4	1,323.9	W	—	W	5,812.9
September 1996 .....	114.7	—	1,161.1	1,275.9	678.7	—	4,902.8	5,581.4
<b>New Jersey</b>								
September 1997 .....	—	—	2,917.7	2,917.7	—	—	10,904.2	10,904.2
August 1997 .....	—	—	3,084.1	3,084.1	W	—	W	11,369.9
September 1996 .....	—	—	3,123.4	3,123.4	—	—	10,743.9	10,743.9
<b>New York</b>								
September 1997 .....	899.9	—	2,737.6	3,637.5	6,806.0	—	8,148.5	14,954.6
August 1997 .....	1,010.6	—	2,876.6	3,887.2	7,280.0	—	8,237.6	15,517.6
September 1996 .....	922.8	—	2,810.4	3,733.2	6,489.8	—	7,826.2	14,316.0
<b>Pennsylvania</b>								
September 1997 .....	1,551.2	—	758.2	2,309.4	9,996.6	—	3,575.9	13,572.6
August 1997 .....	1,730.0	—	813.2	2,543.2	10,813.5	—	3,710.8	14,524.3
September 1996 .....	1,719.6	—	899.9	2,619.5	9,806.9	—	3,879.1	13,685.9

See footnotes at end of table.

**Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Regular				Midgrade			
	Conventional <sup>a</sup>	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
<b>Subdistrict IC</b>								
September 1997 .....	34,724.8	—	3,306.7	38,031.4	7,443.7	—	857.6	8,301.3
August 1997 .....	36,045.6	—	3,421.7	39,467.3	7,823.8	—	909.3	8,733.1
September 1996 .....	33,187.7	—	3,209.5	36,397.2	7,279.7	—	899.6	8,179.3
<b>Florida</b>								
September 1997 .....	11,561.3	—	—	11,561.3	2,954.1	—	—	2,954.1
August 1997 .....	11,733.7	—	—	11,733.7	3,045.4	—	—	3,045.4
September 1996 .....	10,836.1	—	—	10,836.1	2,880.6	—	—	2,880.6
<b>Georgia</b>								
September 1997 .....	7,994.7	—	—	7,994.7	1,572.2	—	—	1,572.2
August 1997 .....	8,494.2	—	—	8,494.2	1,717.4	—	—	1,717.4
September 1996 .....	7,564.9	—	—	7,564.9	1,569.1	—	—	1,569.1
<b>North Carolina</b>								
September 1997 .....	7,189.4	—	—	7,189.4	1,527.8	—	—	1,527.8
August 1997 .....	7,505.6	—	—	7,505.6	1,586.2	—	—	1,586.2
September 1996 .....	7,029.1	—	—	7,029.1	1,425.2	—	—	1,425.2
<b>South Carolina</b>								
September 1997 .....	3,826.1	—	—	3,826.1	664.5	—	—	664.5
August 1997 .....	3,998.3	—	—	3,998.3	709.7	—	—	709.7
September 1996 .....	3,797.3	—	—	3,797.3	677.5	—	—	677.5
<b>Virginia</b>								
September 1997 .....	3,105.1	—	3,306.7	6,411.8	537.2	—	857.6	1,394.8
August 1997 .....	3,329.6	—	3,421.7	6,751.3	568.2	—	909.3	1,477.5
September 1996 .....	2,963.1	—	3,209.5	6,172.6	537.0	—	899.6	1,436.6
<b>West Virginia</b>								
September 1997 .....	1,048.2	—	—	1,048.2	188.1	—	—	188.1
August 1997 .....	984.2	—	—	984.2	196.9	—	—	196.9
September 1996 .....	997.1	—	—	997.1	190.4	—	—	190.4
<b>PAD District II</b>								
September 1997 .....	68,642.3	2,581.4	7,624.0	78,847.7	7,237.5	353.1	1,647.9	9,238.5
August 1997 .....	71,734.4	2,390.2	7,855.5	81,980.0	7,513.9	311.1	1,695.2	9,520.2
September 1996 .....	67,457.6	1,922.0	6,674.2	76,053.9	6,938.6	270.7	1,569.8	8,779.1
<b>Illinois</b>								
September 1997 .....	4,756.3	—	4,547.7	9,304.0	427.5	—	1,155.6	1,583.1
August 1997 .....	4,647.0	—	4,633.7	9,280.7	425.7	—	1,178.2	1,603.8
September 1996 .....	4,940.4	—	3,940.8	8,881.2	425.8	—	1,098.9	1,524.7
<b>Indiana</b>								
September 1997 .....	5,435.7	—	728.7	6,164.4	778.9	—	141.5	920.4
August 1997 .....	5,667.7	—	799.8	6,467.5	824.6	—	152.2	976.8
September 1996 .....	5,339.8	—	557.0	5,896.8	724.6	—	130.2	854.8
<b>Iowa</b>								
September 1997 .....	3,534.7	—	—	3,534.7	251.5	—	—	251.5
August 1997 .....	3,627.5	—	—	3,627.5	271.0	—	—	271.0
September 1996 .....	3,634.1	—	—	3,634.1	62.2	—	—	62.2
<b>Kansas</b>								
September 1997 .....	3,522.3	—	—	3,522.3	132.4	—	—	132.4
August 1997 .....	3,691.7	—	—	3,691.7	140.8	—	—	140.8
September 1996 .....	3,475.5	—	—	3,475.5	127.9	—	—	127.9
<b>Kentucky</b>								
September 1997 .....	3,054.7	—	913.1	3,967.8	412.7	—	189.0	601.7
August 1997 .....	3,120.8	—	954.7	4,075.5	399.7	—	188.8	588.5
September 1996 .....	2,964.1	—	795.8	3,759.9	396.4	—	167.7	564.1
<b>Michigan</b>								
September 1997 .....	10,384.2	—	—	10,384.2	1,057.3	—	—	1,057.3
August 1997 .....	10,725.7	—	—	10,725.7	1,107.1	—	—	1,107.1
September 1996 .....	10,058.6	—	—	10,058.6	1,108.0	—	—	1,108.0
<b>Minnesota</b>								
September 1997 .....	2,917.7	2,581.4	—	5,499.1	58.8	353.1	—	411.8
August 1997 .....	3,415.0	2,390.2	—	5,805.2	66.4	311.1	—	377.5
September 1996 .....	3,577.7	1,922.0	—	5,499.7	67.7	270.7	—	338.4
<b>Missouri</b>								
September 1997 .....	5,987.2	—	—	5,987.2	444.5	—	—	444.5
August 1997 .....	6,362.2	—	—	6,362.2	475.1	—	—	475.1
September 1996 .....	5,783.6	—	—	5,783.6	468.1	—	—	468.1

See footnotes at end of table.

**Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium				All Grades			
	Conventional	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
<b>Subdistrict IC</b>								
September 1997 .....	10,261.7	—	1,213.4	11,475.1	52,430.2	—	5,377.7	57,807.9
August 1997 .....	10,647.0	—	1,266.6	11,913.6	54,516.4	—	5,597.6	60,114.0
September 1996 .....	10,171.5	—	1,227.2	11,398.7	50,638.9	—	5,336.3	55,975.2
<b>Florida</b>								
September 1997 .....	4,162.0	—	—	4,162.0	18,677.3	—	—	18,677.3
August 1997 .....	4,249.6	—	—	4,249.6	19,028.6	—	—	19,028.6
September 1996 .....	4,145.3	—	—	4,145.3	17,862.0	—	—	17,862.0
<b>Georgia</b>								
September 1997 .....	2,193.0	—	—	2,193.0	11,759.9	—	—	11,759.9
August 1997 .....	2,275.7	—	—	2,275.7	12,487.4	—	—	12,487.4
September 1996 .....	2,149.6	—	—	2,149.6	11,283.6	—	—	11,283.6
<b>North Carolina</b>								
September 1997 .....	2,013.8	—	—	2,013.8	10,731.0	—	—	10,731.0
August 1997 .....	2,087.7	—	—	2,087.7	11,179.6	—	—	11,179.6
September 1996 .....	1,961.1	—	—	1,961.1	10,415.5	—	—	10,415.5
<b>South Carolina</b>								
September 1997 .....	935.1	—	—	935.1	5,425.7	—	—	5,425.7
August 1997 .....	991.2	—	—	991.2	5,699.2	—	—	5,699.2
September 1996 .....	937.0	—	—	937.0	5,411.8	—	—	5,411.8
<b>Virginia</b>								
September 1997 .....	776.8	—	1,213.4	1,990.2	4,419.1	—	5,377.7	9,796.8
August 1997 .....	845.9	—	1,266.6	2,112.5	4,743.7	—	5,597.6	10,341.3
September 1996 .....	791.5	—	1,227.2	2,018.7	4,291.6	—	5,336.3	9,627.9
<b>West Virginia</b>								
September 1997 .....	180.9	—	—	180.9	1,417.2	—	—	1,417.2
August 1997 .....	196.9	—	—	196.9	1,377.9	—	—	1,377.9
September 1996 .....	187.0	—	—	187.0	1,374.4	—	—	1,374.4
<b>PAD District II</b>								
September 1997 .....	10,267.7	308.4	1,958.6	12,534.7	86,147.4	3,242.9	11,230.5	100,620.8
August 1997 .....	10,731.3	300.5	1,982.7	13,014.5	89,979.5	3,001.8	11,533.3	104,514.6
September 1996 .....	10,772.1	258.4	1,912.1	12,942.6	85,168.4	2,451.1	10,156.1	97,775.6
<b>Illinois</b>								
September 1997 .....	595.9	—	1,383.7	1,979.7	5,779.7	—	7,087.1	12,866.8
August 1997 .....	600.3	—	1,383.5	1,983.9	5,673.0	—	7,195.4	12,868.4
September 1996 .....	721.2	—	1,363.9	2,085.1	6,087.4	—	6,403.5	12,491.0
<b>Indiana</b>								
September 1997 .....	952.7	—	176.1	1,128.8	7,167.2	—	1,046.3	8,213.5
August 1997 .....	955.5	—	186.6	1,142.1	7,447.8	—	1,138.6	8,586.4
September 1996 .....	1,026.6	—	162.0	1,188.6	7,091.0	—	849.2	7,940.3
<b>Iowa</b>								
September 1997 .....	252.3	—	—	252.3	4,038.5	—	—	4,038.5
August 1997 .....	284.1	—	—	284.1	4,182.5	—	—	4,182.5
September 1996 .....	256.7	—	—	256.7	3,953.0	—	—	3,953.0
<b>Kansas</b>								
September 1997 .....	330.0	—	—	330.0	3,984.7	—	—	3,984.7
August 1997 .....	358.6	—	—	358.6	4,191.1	—	—	4,191.1
September 1996 .....	343.4	—	—	343.4	3,946.8	—	—	3,946.8
<b>Kentucky</b>								
September 1997 .....	689.1	—	192.4	881.4	4,156.5	—	1,294.5	5,451.0
August 1997 .....	699.1	—	197.2	896.3	4,219.7	—	1,340.6	5,560.3
September 1996 .....	694.2	—	169.8	864.0	4,054.7	—	1,133.3	5,188.0
<b>Michigan</b>								
September 1997 .....	1,561.9	—	—	1,561.9	13,003.5	—	—	13,003.5
August 1997 .....	1,600.6	—	—	1,600.6	13,433.4	—	—	13,433.4
September 1996 .....	1,698.6	—	—	1,698.6	12,865.3	—	—	12,865.3
<b>Minnesota</b>								
September 1997 .....	189.6	308.4	—	498.0	3,166.1	3,242.9	—	6,409.0
August 1997 .....	252.4	300.5	—	552.9	3,733.8	3,001.8	—	6,735.6
September 1996 .....	254.5	258.4	—	512.9	3,899.9	2,451.1	—	6,351.0
<b>Missouri</b>								
September 1997 .....	768.9	—	—	768.9	7,200.5	—	—	7,200.5
August 1997 .....	847.1	—	—	847.1	7,684.3	—	—	7,684.3
September 1996 .....	844.6	—	—	844.6	7,096.3	—	—	7,096.3

See footnotes at end of table.



**Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Regular				Midgrade			
	Conventional <sup>a</sup>	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
<b>Nebraska</b>								
September 1997 .....	1,974.2	—	—	1,974.2	81.2	—	—	81.2
August 1997 .....	2,034.4	—	—	2,034.4	76.1	—	—	76.1
September 1996 .....	2,046.4	—	—	2,046.4	19.2	—	—	19.2
<b>North Dakota</b>								
September 1997 .....	954.8	—	—	954.8	W	—	—	W
August 1997 .....	1,030.6	—	—	1,030.6	W	—	—	W
September 1996 .....	934.6	—	—	934.6	W	—	—	W
<b>Ohio</b>								
September 1997 .....	10,800.1	—	—	10,800.1	1,797.1	—	—	1,797.1
August 1997 .....	11,153.1	—	—	11,153.1	1,790.5	—	—	1,790.5
September 1996 .....	10,073.7	—	—	10,073.7	1,701.0	—	—	1,701.0
<b>Oklahoma</b>								
September 1997 .....	4,206.8	—	—	4,206.8	231.2	—	—	231.2
August 1997 .....	4,462.2	—	—	4,462.2	246.0	—	—	246.0
September 1996 .....	3,825.4	—	—	3,825.4	216.8	—	—	216.8
<b>South Dakota</b>								
September 1997 .....	1,080.0	—	—	1,080.0	W	—	—	W
August 1997 .....	1,164.8	—	—	1,164.8	W	—	—	W
September 1996 .....	1,059.3	—	—	1,059.3	W	—	—	W
<b>Tennessee</b>								
September 1997 .....	5,911.1	—	—	5,911.1	1,280.0	—	—	1,280.0
August 1997 .....	6,160.6	—	—	6,160.6	1,380.5	—	—	1,380.5
September 1996 .....	5,777.2	—	—	5,777.2	1,331.8	—	—	1,331.8
<b>Wisconsin</b>								
September 1997 .....	4,122.4	—	1,434.5	5,556.8	219.2	—	161.7	381.0
August 1997 .....	4,471.0	—	1,467.3	5,938.3	234.4	—	176.1	410.4
September 1996 .....	3,967.2	—	1,380.7	5,347.9	250.1	—	173.0	423.1
<b>PAD District III</b>								
September 1997 .....	28,624.0	304.2	8,077.1	37,005.4	4,265.8	35.3	1,752.6	6,053.7
August 1997 .....	W	W	8,363.4	38,082.1	W	W	1,862.2	6,363.9
September 1996 .....	27,495.1	248.0	7,444.3	35,187.4	4,270.2	36.4	1,761.0	6,067.6
<b>Alabama</b>								
September 1997 .....	4,035.4	—	—	4,035.4	802.0	—	—	802.0
August 1997 .....	4,184.6	—	—	4,184.6	852.8	—	—	852.8
September 1996 .....	3,844.4	—	—	3,844.4	755.5	—	—	755.5
<b>Arkansas</b>								
September 1997 .....	2,953.6	—	—	2,953.6	372.4	—	—	372.4
August 1997 .....	3,051.7	—	—	3,051.7	384.5	—	—	384.5
September 1996 .....	3,070.2	—	—	3,070.2	388.7	—	—	388.7
<b>Louisiana</b>								
September 1997 .....	W	—	W	3,802.8	823.9	—	—	823.9
August 1997 .....	W	—	W	3,847.6	851.6	—	—	851.6
September 1996 .....	W	—	W	3,506.2	827.4	—	—	827.4
<b>Mississippi</b>								
September 1997 .....	2,747.6	—	—	2,747.6	405.9	—	—	405.9
August 1997 .....	2,800.1	—	—	2,800.1	413.6	—	—	413.6
September 1996 .....	2,537.9	—	—	2,537.9	401.9	—	—	401.9
<b>New Mexico</b>								
September 1997 .....	W	W	—	2,073.2	W	W	—	238.9
August 1997 .....	W	W	—	2,111.7	W	W	—	247.7
September 1996 .....	W	W	—	1,936.3	W	W	—	209.8
<b>Texas</b>								
September 1997 .....	13,127.8	W	W	21,392.8	W	W	1,752.6	3,410.6
August 1997 .....	W	—	W	22,086.4	1,751.6	—	1,862.2	3,613.8
September 1996 .....	12,670.7	W	W	20,292.5	W	W	1,761.0	3,484.2
<b>PAD District IV</b>								
September 1997 .....	8,514.5	330.5	—	8,845.1	1,457.2	79.0	—	1,536.2
August 1997 .....	W	W	—	9,617.9	W	W	—	1,633.3
September 1996 .....	8,213.6	279.8	—	8,493.5	1,343.8	49.2	—	1,393.0
<b>Colorado</b>								
September 1997 .....	W	W	—	3,568.1	W	W	—	776.5
August 1997 .....	W	W	—	3,806.1	W	W	—	822.2
September 1996 .....	W	W	—	3,595.9	W	W	—	729.5

See footnotes at end of table.

**Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State**  
(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium				All Grades			
	Conventional	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
<b>Nebraska</b>								
September 1997 .....	138.0	—	—	138.0	2,193.4	—	—	2,193.4
August 1997 .....	155.5	—	—	155.5	2,265.9	—	—	2,265.9
September 1996 .....	135.1	—	—	135.1	2,200.7	—	—	2,200.7
<b>North Dakota</b>								
September 1997 .....	W	—	—	W	1,033.8	—	—	1,033.8
August 1997 .....	W	—	—	W	1,127.3	—	—	1,127.3
September 1996 .....	W	—	—	W	1,017.9	—	—	1,017.9
<b>Ohio</b>								
September 1997 .....	1,804.2	—	—	1,804.2	14,401.4	—	—	14,401.4
August 1997 .....	1,773.5	—	—	1,773.5	14,717.1	—	—	14,717.1
September 1996 .....	1,800.3	—	—	1,800.3	13,575.1	—	—	13,575.1
<b>Oklahoma</b>								
September 1997 .....	624.1	—	—	624.1	5,062.0	—	—	5,062.0
August 1997 .....	670.3	—	—	670.3	5,378.5	—	—	5,378.5
September 1996 .....	624.4	—	—	624.4	4,666.6	—	—	4,666.6
<b>South Dakota</b>								
September 1997 .....	W	—	—	W	1,189.6	—	—	1,189.6
August 1997 .....	W	—	—	W	1,313.8	—	—	1,313.8
September 1996 .....	W	—	—	W	1,130.8	—	—	1,130.8
<b>Tennessee</b>								
September 1997 .....	1,776.9	—	—	1,776.9	8,968.1	—	—	8,968.1
August 1997 .....	1,834.4	—	—	1,834.4	9,375.5	—	—	9,375.5
September 1996 .....	1,761.8	—	—	1,761.8	8,870.9	—	—	8,870.9
<b>Wisconsin</b>								
September 1997 .....	460.8	—	206.4	667.3	4,802.4	—	1,802.6	6,605.1
August 1997 .....	530.3	—	215.4	745.7	5,235.7	—	1,858.7	7,094.4
September 1996 .....	494.5	—	216.4	710.9	4,711.9	—	1,770.1	6,481.9
<b>PAD District III</b>								
September 1997 .....	5,906.6	53.8	2,053.6	8,014.0	38,796.5	393.3	11,883.3	51,073.1
August 1997 .....	W	W	2,156.6	8,212.4	W	W	12,382.2	52,658.4
September 1996 .....	5,716.0	56.8	2,147.7	7,920.5	37,481.3	341.2	11,352.9	49,175.4
<b>Alabama</b>								
September 1997 .....	1,154.2	—	—	1,154.2	5,991.5	—	—	5,991.5
August 1997 .....	1,114.0	—	—	1,114.0	6,151.4	—	—	6,151.4
September 1996 .....	1,156.6	—	—	1,156.6	5,756.5	—	—	5,756.5
<b>Arkansas</b>								
September 1997 .....	591.8	—	—	591.8	3,917.8	—	—	3,917.8
August 1997 .....	620.6	—	—	620.6	4,056.8	—	—	4,056.8
September 1996 .....	626.3	—	—	626.3	4,085.2	—	—	4,085.2
<b>Louisiana</b>								
September 1997 .....	1,131.8	—	—	1,131.8	W	—	W	5,758.4
August 1997 .....	1,158.9	—	—	1,158.9	W	—	W	5,858.1
September 1996 .....	1,112.4	—	—	1,112.4	W	—	W	5,446.0
<b>Mississippi</b>								
September 1997 .....	669.6	—	—	669.6	3,823.1	—	—	3,823.1
August 1997 .....	704.7	—	—	704.7	3,918.4	—	—	3,918.4
September 1996 .....	629.3	—	—	629.3	3,569.1	—	—	3,569.1
<b>New Mexico</b>								
September 1997 .....	W	W	—	315.8	W	W	—	2,627.9
August 1997 .....	W	W	—	343.7	W	W	—	2,703.1
September 1996 .....	W	W	—	274.1	W	W	—	2,420.3
<b>Texas</b>								
September 1997 .....	W	W	2,053.6	4,150.9	16,837.1	W	W	28,954.3
August 1997 .....	2,113.8	—	2,156.6	4,270.4	W	—	W	29,970.6
September 1996 .....	W	W	2,147.7	4,121.8	16,302.8	W	W	27,898.5
<b>PAD District IV</b>								
September 1997 .....	1,715.3	50.9	—	1,766.2	11,687.1	460.4	—	12,147.5
August 1997 .....	W	W	—	2,092.8	W	W	—	13,343.9
September 1996 .....	1,749.5	48.4	—	1,797.9	11,306.9	377.4	—	11,684.3
<b>Colorado</b>								
September 1997 .....	W	W	—	694.6	W	W	—	5,039.3
August 1997 .....	W	W	—	805.5	W	W	—	5,433.7
September 1996 .....	W	W	—	740.9	W	W	—	5,066.3

See footnotes at end of table.

**Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Regular				Midgrade			
	Conventional <sup>a</sup>	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
<b>Idaho</b>								
September 1997 .....	1,216.8	—	—	1,216.8	144.7	—	—	144.7
August 1997 .....	1,394.9	—	—	1,394.9	170.2	—	—	170.2
September 1996 .....	1,205.8	—	—	1,205.8	147.1	—	—	147.1
<b>Montana</b>								
September 1997 .....	1,165.9	—	—	1,165.9	62.3	—	—	62.3
August 1997 .....	1,365.1	—	—	1,365.1	70.3	—	—	70.3
September 1996 .....	1,085.2	—	—	1,085.2	72.7	—	—	72.7
<b>Utah</b>								
September 1997 .....	W	W	—	2,180.9	W	W	—	535.2
August 1997 .....	2,191.5	—	—	2,191.5	550.0	—	—	550.0
September 1996 .....	W	W	—	1,904.2	W	W	—	432.7
<b>Wyoming</b>								
September 1997 .....	713.3	—	—	713.3	17.5	—	—	17.5
August 1997 .....	860.4	—	—	860.4	20.5	—	—	20.5
September 1996 .....	702.4	—	—	702.4	11.0	—	—	11.0
<b>PAD District V</b>								
September 1997 .....	10,761.1	2,437.5	29,266.0	42,464.6	1,265.3	372.4	5,811.4	7,449.1
August 1997 .....	12,429.1	1,830.9	29,496.5	43,756.5	1,633.6	232.3	6,169.4	8,035.3
September 1996 .....	14,273.1	1,475.3	26,133.4	41,881.8	1,792.3	265.4	5,779.4	7,837.1
<b>Alaska</b>								
September 1997 .....	W	W	—	656.9	W	W	—	24.7
August 1997 .....	668.3	—	—	668.3	27.5	—	—	27.5
September 1996 .....	W	W	—	577.2	W	W	—	47.8
<b>Arizona</b>								
September 1997 .....	1,080.8	W	W	3,574.7	105.2	W	W	494.8
August 1997 .....	1,443.6	—	2,266.6	3,710.3	W	—	W	533.0
September 1996 .....	3,354.7	W	W	3,456.4	W	W	W	437.5
<b>California</b>								
September 1997 .....	W	—	W	27,002.1	W	—	W	5,445.3
August 1997 .....	W	—	W	27,416.9	W	—	W	5,804.9
September 1996 .....	W	—	W	26,153.2	W	—	W	5,783.9
<b>Hawaii</b>								
September 1997 .....	560.5	—	—	560.5	131.7	—	—	131.7
August 1997 .....	593.5	—	—	593.5	133.2	—	—	133.2
September 1996 .....	599.5	—	—	599.5	132.9	—	—	132.9
<b>Nevada</b>								
September 1997 .....	1,337.7	W	W	1,695.8	161.9	80.9	—	242.8
August 1997 .....	W	—	W	1,917.5	307.6	—	—	307.6
September 1996 .....	1,441.4	W	W	1,849.7	172.7	W	W	241.6
<b>Oregon</b>								
September 1997 .....	2,880.2	W	W	3,325.6	W	W	—	249.8
August 1997 .....	3,031.8	W	W	3,504.1	W	W	—	289.9
September 1996 .....	3,261.1	W	W	3,431.2	263.4	W	W	280.8
<b>Washington</b>								
September 1997 .....	4,093.7	1,555.2	—	5,648.9	632.8	227.2	—	860.0
August 1997 .....	W	W	—	5,945.9	W	W	—	939.2
September 1996 .....	5,084.6	729.9	—	5,814.5	766.2	146.3	—	912.4

See footnotes at end of table.

**Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium				All Grades			
	Conventional	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
<b>Idaho</b>								
September 1997 .....	171.8	—	—	171.8	1,533.3	—	—	1,533.3
August 1997 .....	211.5	—	—	211.5	1,776.6	—	—	1,776.6
September 1996 .....	182.0	—	—	182.0	1,534.9	—	—	1,534.9
<b>Montana</b>								
September 1997 .....	230.3	—	—	230.3	1,458.5	—	—	1,458.5
August 1997 .....	300.0	—	—	300.0	1,735.3	—	—	1,735.3
September 1996 .....	199.6	—	—	199.6	1,357.4	—	—	1,357.4
<b>Utah</b>								
September 1997 .....	W	W	—	518.6	W	W	—	3,234.7
August 1997 .....	569.9	—	—	569.9	3,311.4	—	—	3,311.4
September 1996 .....	W	W	—	531.6	W	W	—	2,868.5
<b>Wyoming</b>								
September 1997 .....	150.9	—	—	150.9	881.7	—	—	881.7
August 1997 .....	205.9	—	—	205.9	1,086.8	—	—	1,086.8
September 1996 .....	143.8	—	—	143.8	857.2	—	—	857.2
<b>PAD District V</b>								
September 1997 .....	1,736.3	317.1	6,170.5	8,223.9	13,762.7	3,127.0	41,247.9	58,137.6
August 1997 .....	2,219.3	193.9	6,809.4	9,222.5	16,282.0	2,257.0	42,475.3	61,014.3
September 1996 .....	2,328.3	323.8	6,235.0	8,887.0	18,393.7	2,064.4	38,147.7	58,605.9
<b>Alaska</b>								
September 1997 .....	W	W	—	71.3	W	W	—	752.9
August 1997 .....	W	W	—	71.5	W	W	—	767.3
September 1996 .....	49.3	19.7	—	69.0	582.3	111.7	—	694.0
<b>Arizona</b>								
September 1997 .....	W	W	427.5	585.7	W	W	3,229.5	4,655.2
August 1997 .....	W	W	W	658.3	W	W	3,083.5	4,901.5
September 1996 .....	W	33.4	W	619.0	W	154.9	W	4,513.0
<b>California</b>								
September 1997 .....	W	—	W	5,778.4	W	—	W	38,225.8
August 1997 .....	W	—	W	6,411.6	W	—	W	39,633.4
September 1996 .....	W	—	W	6,237.3	W	—	W	38,174.4
<b>Hawaii</b>								
September 1997 .....	271.0	—	—	271.0	963.3	—	—	963.3
August 1997 .....	272.1	—	—	272.1	998.8	—	—	998.8
September 1996 .....	265.2	—	—	265.2	997.6	—	—	997.6
<b>Nevada</b>								
September 1997 .....	209.1	W	W	293.7	1,708.7	W	W	2,232.3
August 1997 .....	W	—	W	398.3	W	—	W	2,623.3
September 1996 .....	277.9	W	W	377.3	1,892.0	W	W	2,468.7
<b>Oregon</b>								
September 1997 .....	W	W	W	375.5	3,427.3	W	W	3,950.9
August 1997 .....	W	W	W	419.0	3,653.7	W	W	4,213.0
September 1996 .....	412.0	W	W	436.0	3,936.6	W	W	4,148.0
<b>Washington</b>								
September 1997 .....	676.5	171.8	—	848.3	5,403.0	1,954.2	—	7,357.2
August 1997 .....	843.7	148.0	—	991.8	6,185.0	1,691.9	—	7,876.9
September 1996 .....	734.8	148.3	—	883.1	6,585.5	1,024.5	—	7,610.1

Dash (—) = No data reported.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes leaded gasoline data.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*. Totals may not equal the sum of the components due to rounding.

Source: Energy Information Administration, Form EIA-782C, "Monthly Report of Prime Supplier Sales of Petroleum Products Sold for Local Consumption."

**Table 49. Prime Supplier Sales Volumes of Aviation Fuels, Propane, and Residual Fuel Oil by PAD District and State**

(Thousand Gallons per Day)

Geographic Area Month	Aviation Gasoline	Naphtha- Type Jet Fuel	Kerosene- Type Jet Fuel	Propane (Consumer Grade)	Residual Fuel Oil		
					Sulfur Less Than or Equal to 1 Percent	Sulfur Greater Than 1 Percent	Total Residual Fuel Oil
United States							
September 1997 .....	902.3	673.1	62,615.6	36,405.9	8,165.1	18,613.9	26,779.0
August 1997 .....	1,031.4	837.4	62,762.2	31,752.3	8,171.8	18,811.6	26,983.4
September 1996 .....	865.3	825.2	61,629.7	37,751.7	6,235.5	17,719.4	23,955.0
PAD District I							
September 1997 .....	182.4	W	15,198.4	6,722.9	5,807.3	7,739.5	13,546.8
August 1997 .....	220.8	W	14,718.6	5,503.4	6,459.7	8,293.1	14,752.8
September 1996 .....	182.1	W	15,418.4	6,173.0	4,040.6	8,271.1	12,311.7
Subdistrict IA							
September 1997 .....	19.0	—	1,243.8	436.0	1,364.7	1,291.3	2,656.0
August 1997 .....	32.3	—	1,217.8	352.6	1,048.2	1,359.5	2,407.8
September 1996 .....	25.0	W	1,185.1	407.7	836.5	1,860.3	2,696.8
Connecticut							
September 1997 .....	3.9	—	238.8	81.9	W	W	394.3
August 1997 .....	3.8	—	207.6	93.4	W	W	W
September 1996 .....	4.6	W	350.7	79.3	271.5	W	W
Maine							
September 1997 .....	W	—	109.6	59.2	454.4	594.6	1,049.0
August 1997 .....	W	—	99.7	47.7	380.6	537.9	918.5
September 1996 .....	2.6	W	84.5	67.5	W	W	838.9
Massachusetts							
September 1997 .....	7.6	—	761.6	90.2	563.1	420.9	984.1
August 1997 .....	12.8	—	760.5	74.9	W	W	829.4
September 1996 .....	5.3	—	652.0	77.4	155.3	378.9	534.3
New Hampshire							
September 1997 .....	2.1	—	47.6	123.8	25.6	83.2	108.9
August 1997 .....	2.7	—	51.2	69.7	NA	82.4	104.4
September 1996 .....	2.0	—	36.5	95.4	18.5	122.8	141.3
Rhode Island							
September 1997 .....	W	—	74.3	24.8	89.7	—	89.7
August 1997 .....	W	—	84.2	25.7	47.9	—	47.9
September 1996 .....	W	—	52.5	25.4	W	W	W
Vermont							
September 1997 .....	W	—	11.9	56.1	W	W	30.1
August 1997 .....	W	—	14.6	41.1	W	22.4	W
September 1996 .....	W	—	8.8	62.8	10.0	22.6	32.6
Subdistrict IB							
September 1997 .....	47.3	W	7,810.1	1,957.8	2,267.6	2,582.4	4,849.9
August 1997 .....	58.9	W	7,381.7	1,680.6	2,279.7	3,682.4	5,962.1
September 1996 .....	41.1	W	7,445.6	1,899.2	2,626.9	2,830.9	5,457.8
Delaware							
September 1997 .....	1.4	—	W	199.6	W	206.9	W
August 1997 .....	1.3	—	W	W	W	W	322.6
September 1996 .....	1.0	—	7.9	144.2	W	W	371.3
District of Columbia							
September 1997 .....	—	—	W	—	W	—	W
August 1997 .....	—	—	W	—	W	—	W
September 1996 .....	—	—	—	—	W	—	W
Maryland							
September 1997 .....	6.3	—	407.3	152.3	W	W	412.4
August 1997 .....	6.4	—	476.3	W	197.3	W	W
September 1996 .....	5.6	—	331.0	128.4	W	W	W
New Jersey							
September 1997 .....	14.8	W	4,063.7	324.3	418.5	560.9	979.4
August 1997 .....	26.3	—	3,980.6	307.1	928.8	1,023.4	1,952.3
September 1996 .....	12.7	W	4,505.4	353.9	674.2	919.4	1,593.6
New York							
September 1997 .....	9.6	—	1,329.2	500.0	974.7	1,100.6	2,075.3
August 1997 .....	10.5	—	1,481.6	398.1	876.6	1,216.7	2,093.3
September 1996 .....	8.2	—	1,356.6	524.9	1,263.1	1,084.1	2,347.2
Pennsylvania							
September 1997 .....	15.1	W	1,968.7	781.6	W	W	1,149.4
August 1997 .....	14.5	W	1,402.1	650.7	259.3	1,079.8	1,339.1
September 1996 .....	13.6	—	1,244.6	747.8	609.9	412.2	1,022.0

See footnotes at end of table.

**Table 49. Prime Supplier Sales Volumes of Aviation Fuels, Propane, and Residual Fuel Oil by PAD District and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Aviation Gasoline	Naphtha- Type Jet Fuel	Kerosene- Type Jet Fuel	Propane (Consumer Grade)	Residual Fuel Oil		
					Sulfur Less Than or Equal to 1 Percent	Sulfur Greater Than 1 Percent	Total Residual Fuel Oil
<b>Subdistrict IC</b>							
September 1997 .....	116.0	W	6,144.5	4,329.0	2,175.0	3,865.9	6,040.8
August 1997 .....	129.6	W	6,119.1	3,470.2	3,131.7	3,251.2	6,382.9
September 1996 .....	115.9	W	6,787.8	3,866.1	577.2	3,579.9	4,157.1
<b>Florida</b>							
September 1997 .....	55.5	—	2,838.7	701.0	2,079.1	2,060.7	4,139.8
August 1997 .....	62.9	—	2,773.3	577.8	W	W	4,465.0
September 1996 .....	57.1	—	2,923.6	744.6	W	W	2,523.4
<b>Georgia</b>							
September 1997 .....	20.9	W	1,395.1	770.9	—	433.8	433.8
August 1997 .....	24.9	W	1,552.4	689.5	—	357.1	357.1
September 1996 .....	22.3	W	1,664.4	818.2	—	398.9	398.9
<b>North Carolina</b>							
September 1997 .....	22.8	—	687.3	1,686.1	W	W	587.7
August 1997 .....	23.6	—	684.8	1,318.0	W	W	545.3
September 1996 .....	22.5	—	1,100.6	1,259.1	W	W	543.9
<b>South Carolina</b>							
September 1997 .....	7.6	—	115.4	626.6	W	W	W
August 1997 .....	8.7	—	120.3	537.7	W	W	W
September 1996 .....	6.6	—	127.1	429.3	W	W	W
<b>Virginia</b>							
September 1997 .....	6.1	—	1,088.5	457.9	W	W	601.4
August 1997 .....	6.8	—	969.1	279.3	W	W	782.9
September 1996 .....	W	—	953.2	545.6	18.0	395.5	413.5
<b>West Virginia</b>							
September 1997 .....	3.2	—	19.4	86.5	—	W	W
August 1997 .....	2.6	—	19.2	68.0	—	W	W
September 1996 .....	W	—	18.8	69.4	W	W	W
<b>PAD District II</b>							
September 1997 .....	273.0	W	9,985.1	12,366.1	W	W	430.5
August 1997 .....	304.3	W	9,742.1	10,604.0	39.2	450.5	489.7
September 1996 .....	234.7	W	10,084.4	12,975.2	W	W	697.7
<b>Illinois</b>							
September 1997 .....	W	—	1,285.9	1,518.0	—	43.9	43.9
August 1997 .....	W	—	1,215.8	1,112.2	W	W	W
September 1996 .....	W	—	1,395.7	1,806.0	W	W	226.2
<b>Indiana</b>							
September 1997 .....	22.7	—	1,071.3	756.9	W	W	5.6
August 1997 .....	20.6	—	1,097.4	757.1	W	W	28.5
September 1996 .....	16.3	—	1,423.1	799.5	W	W	W
<b>Iowa</b>							
September 1997 .....	10.9	—	69.0	728.2	—	W	W
August 1997 .....	17.1	—	64.5	699.3	—	W	W
September 1996 .....	W	—	93.5	916.9	—	W	W
<b>Kansas</b>							
September 1997 .....	12.4	—	186.5	2,472.5	—	—	—
August 1997 .....	18.7	—	216.3	1,949.7	—	—	—
September 1996 .....	15.9	—	W	2,019.6	—	—	—
<b>Kentucky</b>							
September 1997 .....	3.9	—	542.7	570.6	W	W	W
August 1997 .....	3.7	—	306.4	499.1	W	W	W
September 1996 .....	4.2	—	532.7	633.0	W	W	9.8
<b>Michigan</b>							
September 1997 .....	35.3	—	961.5	976.8	—	W	W
August 1997 .....	31.7	—	1,037.6	892.5	—	71.4	71.4
September 1996 .....	W	—	773.0	1,040.2	—	47.6	47.6
<b>Minnesota</b>							
September 1997 .....	30.0	—	1,202.3	954.6	W	W	169.3
August 1997 .....	W	—	1,204.4	937.5	W	W	107.0
September 1996 .....	W	—	1,218.3	1,044.5	W	W	180.6
<b>Missouri</b>							
September 1997 .....	15.4	—	1,260.4	1,332.9	—	W	W
August 1997 .....	16.1	—	1,343.1	881.4	W	W	W
September 1996 .....	15.0	—	1,220.2	1,452.5	—	W	W

See footnotes at end of table.

**Table 49. Prime Supplier Sales Volumes of Aviation Fuels, Propane, and Residual Fuel Oil by PAD District and State**  
(Thousand Gallons per Day) — Continued

Geographic Area Month	Aviation Gasoline	Naphtha- Type Jet Fuel	Kerosene- Type Jet Fuel	Propane (Consumer Grade)	Residual Fuel Oil		
					Sulfur Less Than or Equal to 1 Percent	Sulfur Greater Than 1 Percent	Total Residual Fuel Oil
<b>Nebraska</b>							
September 1997 .....	W	—	114.7	391.5	—	W	W
August 1997 .....	W	—	114.2	410.3	—	—	—
September 1996 .....	6.9	—	113.0	416.5	—	—	—
<b>North Dakota</b>							
September 1997 .....	4.9	—	20.0	203.1	—	—	—
August 1997 .....	4.2	—	21.1	227.7	—	—	—
September 1996 .....	3.5	—	W	241.5	—	—	—
<b>Ohio</b>							
September 1997 .....	58.9	W	1,391.7	665.6	W	W	19.8
August 1997 .....	54.2	W	1,306.1	571.6	W	W	60.0
September 1996 .....	44.0	W	1,346.8	755.3	W	W	30.9
<b>Oklahoma</b>							
September 1997 .....	12.6	W	555.0	498.9	—	W	W
August 1997 .....	14.2	W	595.6	435.7	—	W	W
September 1996 .....	11.2	—	497.0	562.1	—	W	W
<b>South Dakota</b>							
September 1997 .....	8.1	—	84.5	170.8	—	W	W
August 1997 .....	W	—	120.9	183.5	W	W	W
September 1996 .....	6.1	—	136.7	206.2	—	W	W
<b>Tennessee</b>							
September 1997 .....	23.7	—	1,014.2	448.2	W	W	21.2
August 1997 .....	24.3	—	897.9	386.1	W	W	27.3
September 1996 .....	17.8	W	967.1	399.0	W	W	22.6
<b>Wisconsin</b>							
September 1997 .....	14.2	—	225.6	677.5	W	W	W
August 1997 .....	20.6	—	200.9	660.2	—	W	W
September 1996 .....	W	—	140.1	682.2	—	92.9	92.9
<b>PAD District III</b>							
September 1997 .....	145.7	W	16,486.3	13,816.1	700.5	5,695.2	6,395.8
August 1997 .....	166.6	W	17,097.6	12,470.0	348.5	5,707.1	6,055.6
September 1996 .....	150.8	126.8	15,149.6	14,884.9	463.0	4,724.2	5,187.2
<b>Alabama</b>							
September 1997 .....	10.9	W	172.3	394.3	W	W	176.4
August 1997 .....	10.6	W	161.5	339.2	W	300.4	W
September 1996 .....	10.0	W	383.2	481.2	W	W	133.7
<b>Arkansas</b>							
September 1997 .....	12.2	—	127.1	358.2	—	—	—
August 1997 .....	14.2	—	260.3	254.7	—	—	—
September 1996 .....	12.2	—	127.3	417.1	—	W	W
<b>Louisiana</b>							
September 1997 .....	12.6	—	3,675.1	2,131.9	W	W	4,036.4
August 1997 .....	12.5	—	3,283.8	1,595.5	—	3,729.5	3,729.5
September 1996 .....	13.2	—	2,954.8	2,153.5	—	3,301.9	3,301.9
<b>Mississippi</b>							
September 1997 .....	10.0	W	1,029.9	795.6	W	W	W
August 1997 .....	12.7	W	853.4	571.4	—	—	—
September 1996 .....	8.2	W	628.1	780.3	W	W	33.1
<b>New Mexico</b>							
September 1997 .....	13.4	W	176.3	261.3	W	—	W
August 1997 .....	15.5	W	182.0	248.1	W	—	W
September 1996 .....	14.1	W	166.4	322.8	W	—	W
<b>Texas</b>							
September 1997 .....	86.5	—	11,305.7	9,874.9	127.9	1,449.4	1,577.2
August 1997 .....	101.1	—	12,356.8	9,461.0	312.9	1,677.3	1,990.2
September 1996 .....	93.1	—	10,889.8	10,730.1	421.3	1,256.4	1,677.7
<b>PAD District IV</b>							
September 1997 .....	39.1	W	1,649.5	1,031.7	W	W	41.8
August 1997 .....	55.6	W	1,728.1	968.9	0.9	12.5	13.5
September 1996 .....	41.7	W	1,629.5	1,100.1	W	W	43.4
<b>Colorado</b>							
September 1997 .....	15.9	—	750.0	312.3	W	—	W
August 1997 .....	24.3	—	778.9	231.4	W	—	W
September 1996 .....	18.5	—	730.1	315.1	—	—	—

See footnotes at end of table.

**Table 49. Prime Supplier Sales Volumes of Aviation Fuels, Propane, and Residual Fuel Oil by PAD District and State**  
(Thousand Gallons per Day) — Continued

Geographic Area Month	Aviation Gasoline	Naphtha- Type Jet Fuel	Kerosene- Type Jet Fuel	Propane (Consumer Grade)	Residual Fuel Oil		
					Sulfur Less Than or Equal to 1 Percent	Sulfur Greater Than 1 Percent	Total Residual Fuel Oil
<b>Idaho</b>							
September 1997 .....	5.9	—	86.8	62.6	—	W	W
August 1997 .....	W	—	90.2	63.7	—	W	W
September 1996 .....	W	—	80.1	79.5	—	W	W
<b>Montana</b>							
September 1997 .....	W	—	87.3	187.6	—	W	W
August 1997 .....	10.5	—	108.0	216.2	—	W	W
September 1996 .....	8.4	—	129.2	256.5	—	W	W
<b>Utah</b>							
September 1997 .....	7.0	W	708.8	136.0	W	W	W
August 1997 .....	9.5	W	734.4	114.7	W	W	W
September 1996 .....	7.0	W	675.1	147.1	W	W	10.1
<b>Wyoming</b>							
September 1997 .....	W	—	16.7	333.3	W	W	W
August 1997 .....	W	—	16.7	342.9	—	W	W
September 1996 .....	W	—	15.0	301.7	W	W	W
<b>PAD District V</b>							
September 1997 .....	262.1	20.4	19,296.2	2,469.1	1,617.1	4,747.1	6,364.2
August 1997 .....	284.1	22.2	19,475.7	2,206.0	1,323.5	4,348.3	5,671.8
September 1996 .....	256.1	57.3	19,347.7	2,618.6	1,443.9	4,271.0	5,714.9
<b>Alaska</b>							
September 1997 .....	92.0	W	3,018.7	W	—	—	—
August 1997 .....	72.4	W	2,272.8	W	—	—	—
September 1996 .....	81.3	W	2,055.3	W	—	—	—
<b>Arizona</b>							
September 1997 .....	15.1	—	792.2	248.5	W	—	W
August 1997 .....	18.0	—	890.3	233.1	W	—	W
September 1996 .....	17.1	—	826.9	232.8	W	W	W
<b>California</b>							
September 1997 .....	98.7	W	10,952.0	1,339.3	402.2	2,013.4	2,415.6
August 1997 .....	120.0	W	11,267.2	1,222.3	W	W	2,008.5
September 1996 .....	100.3	W	11,327.9	1,349.4	395.9	1,461.2	1,857.1
<b>Hawaii</b>							
September 1997 .....	W	—	1,040.7	W	W	W	W
August 1997 .....	W	—	1,061.7	W	W	W	W
September 1996 .....	W	—	NA	W	W	W	W
<b>Nevada</b>							
September 1997 .....	15.2	—	787.6	126.6	W	—	W
August 1997 .....	W	—	749.6	67.4	W	—	W
September 1996 .....	17.5	—	942.3	96.4	W	—	W
<b>Oregon</b>							
September 1997 .....	W	—	580.1	132.7	NA	405.2	445.2
August 1997 .....	19.5	—	687.7	105.4	NA	313.1	347.5
September 1996 .....	W	—	594.1	135.7	—	413.2	413.2
<b>Washington</b>							
September 1997 .....	23.7	—	2,124.9	474.8	W	W	2,156.2
August 1997 .....	35.5	—	2,546.4	405.7	NA	2,186.8	2,193.2
September 1996 .....	19.1	—	2,583.2	563.0	—	2,053.7	2,053.7

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*. Totals may not equal the sum of the components due to rounding.

Source: Energy Information Administration, Form EIA-782C, "Monthly Report of Prime Supplier Sales of Petroleum Products Sold for Local Consumption."



**Table 50. Prime Supplier Sales Volumes of Distillate Fuel Oils and Kerosene by PAD District and State**

(Thousand Gallons per Day)

Geographic Area Month	Kerosene	No. 1 Distillate	No. 2 Distillate					No. 4 Fuel <sup>a</sup>	Total Distillate and Kerosene	
			No. 2 Fuel Oil	No. 2 Diesel Fuel			No. 2 Distillate			
				Low-Sulfur	High-Sulfur	Total				
United States										
September 1997 .....	2,299.1	1,124.3	27,189.5	91,418.6	21,236.7	112,655.3	139,844.8	443.3	143,711.5	
August 1997 .....	1,315.3	767.0	24,006.1	85,813.4	20,335.6	106,149.0	130,155.1	449.5	132,686.9	
September 1996 .....	2,318.2	1,222.6	27,810.4	82,490.9	20,720.0	103,210.9	131,021.3	499.0	135,061.1	
PAD District I										
September 1997 .....	1,395.1	161.9	16,440.2	24,339.3	4,149.3	28,488.6	44,928.7	306.6	46,792.3	
August 1997 .....	679.3	155.6	14,006.2	23,007.8	4,171.1	27,178.9	41,185.1	267.2	42,287.3	
September 1996 .....	1,464.4	181.4	16,131.5	23,020.0	3,633.0	26,653.0	42,784.5	380.3	44,810.6	
Subdistrict IA										
September 1997 .....	253.4	W	4,266.8	2,463.2	325.1	2,788.3	7,055.2	W	7,400.5	
August 1997 .....	126.7	W	3,141.3	2,342.4	418.3	2,760.7	5,902.0	W	6,110.3	
September 1996 .....	258.4	3.1	4,169.7	2,511.6	172.2	2,683.8	6,853.5	82.2	7,197.2	
Connecticut										
September 1997 .....	18.3	W	1,007.8	W	W	668.4	1,676.2	W	1,711.8	
August 1997 .....	W	W	741.2	W	W	691.2	1,432.4	15.8	1,463.2	
September 1996 .....	31.5	W	1,001.8	W	W	545.0	1,546.8	W	1,602.3	
Maine										
September 1997 .....	113.4	W	804.7	444.7	18.0	462.8	1,267.4	W	1,390.6	
August 1997 .....	NA	—	538.6	W	W	441.4	980.1	NA	1,029.6	
September 1996 .....	116.9	W	757.4	426.7	28.5	455.2	1,212.6	W	1,341.1	
Massachusetts										
September 1997 .....	42.6	—	1,361.6	W	W	1,009.2	2,370.8	48.4	2,461.9	
August 1997 .....	26.5	—	959.6	681.4	261.3	942.7	1,902.4	35.2	1,964.1	
September 1996 .....	27.7	—	1,451.3	900.6	78.2	978.7	2,430.1	29.3	2,487.1	
New Hampshire										
September 1997 .....	65.5	W	520.5	279.6	7.0	286.7	807.2	W	880.4	
August 1997 .....	36.0	W	470.8	277.1	4.1	281.2	751.9	W	804.3	
September 1996 .....	65.3	W	440.0	W	W	290.0	730.0	W	804.2	
Rhode Island										
September 1997 .....	W	W	470.0	252.8	17.1	269.9	739.9	5.2	751.2	
August 1997 .....	W	—	362.7	W	W	305.4	668.2	W	675.5	
September 1996 .....	10.5	W	417.8	W	W	326.1	743.9	W	762.1	
Vermont										
September 1997 .....	W	W	102.3	80.0	11.4	91.4	193.7	3.3	204.7	
August 1997 .....	3.0	—	68.3	88.3	10.5	98.8	167.1	3.5	173.6	
September 1996 .....	6.5	W	101.4	78.5	10.2	88.7	190.1	W	200.6	
Subdistrict IB										
September 1997 .....	652.3	156.6	8,579.0	8,398.5	929.1	9,327.6	17,906.6	200.7	18,916.2	
August 1997 .....	307.6	155.0	7,095.9	7,727.7	832.5	8,560.1	15,656.0	175.4	16,294.0	
September 1996 .....	710.3	176.9	8,298.2	8,303.0	895.8	9,198.9	17,497.0	252.2	18,636.4	
Delaware										
September 1997 .....	W	—	112.6	W	W	254.3	366.9	W	379.2	
August 1997 .....	W	—	103.1	W	W	214.6	317.7	W	321.5	
September 1996 .....	W	—	312.3	W	W	342.6	654.9	W	666.0	
District of Columbia										
September 1997 .....	W	—	93.7	W	W	31.1	124.8	W	133.6	
August 1997 .....	NA	—	127.9	W	W	30.7	158.6	—	164.0	
September 1996 .....	W	—	NA	W	W	31.3	85.7	W	96.3	
Maryland										
September 1997 .....	92.0	W	630.3	883.8	143.2	1,027.0	1,657.3	W	1,755.1	
August 1997 .....	24.3	W	406.3	863.2	135.9	999.1	1,405.3	W	1,437.9	
September 1996 .....	76.3	W	501.2	899.5	144.7	1,044.2	1,545.4	W	1,628.2	
New Jersey										
September 1997 .....	127.1	W	3,019.0	2,147.7	277.1	2,424.7	5,443.8	W	5,637.2	
August 1997 .....	51.8	W	2,157.4	2,059.3	248.2	2,307.5	4,464.8	W	4,599.7	
September 1996 .....	154.2	W	2,688.2	1,915.7	247.6	2,163.4	4,851.6	W	5,089.2	
New York										
September 1997 .....	177.8	W	2,252.6	1,755.3	111.6	1,866.8	4,119.4	W	4,576.7	
August 1997 .....	W	W	1,797.5	1,557.8	87.4	1,645.2	3,442.6	120.5	3,795.3	
September 1996 .....	202.3	W	2,425.4	1,604.7	115.0	1,719.7	4,145.1	W	4,658.7	
Pennsylvania										
September 1997 .....	235.0	W	2,470.9	3,336.6	387.0	3,723.6	6,194.5	W	6,434.5	
August 1997 .....	105.6	W	2,503.8	3,012.6	350.5	3,363.1	5,866.9	W	5,975.7	
September 1996 .....	259.2	W	2,316.6	3,516.1	381.6	3,897.7	6,214.3	W	6,498.0	

See footnotes at end of table.

**Table 50. Prime Supplier Sales Volumes of Distillate Fuel Oils and Kerosene by PAD District and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Kerosene	No. 1 Distillate	No. 2 Distillate					No. 4 Fuel <sup>a</sup>	Total Distillate and Kerosene	
			No. 2 Fuel Oil	No. 2 Diesel Fuel			No. 2 Distillate			
				Low-Sulfur	High-Sulfur	Total				
Subdistrict IC										
September 1997 .....	489.4	W	3,594.3	13,477.6	2,895.1	16,372.7	19,967.0	W	20,475.5	
August 1997 .....	245.0	W	3,769.1	12,937.7	2,920.4	15,858.1	19,627.2	W	19,883.0	
September 1996 .....	495.7	1.4	3,663.6	12,205.4	2,564.9	14,770.3	18,433.9	46.0	18,977.0	
Florida										
September 1997 .....	W	—	658.1	3,613.8	941.7	4,555.5	5,213.6	W	5,235.0	
August 1997 .....	W	—	715.2	3,403.6	1,013.7	4,417.3	5,132.5	W	5,150.9	
September 1996 .....	W	—	535.1	3,169.9	907.3	4,077.1	4,612.2	W	4,638.6	
Georgia										
September 1997 .....	W	—	487.6	3,356.0	554.0	3,910.0	4,397.5	W	4,419.0	
August 1997 .....	W	—	533.3	3,335.0	621.9	3,956.9	4,490.2	W	4,502.2	
September 1996 .....	W	—	562.4	3,012.4	432.3	3,444.7	4,007.1	W	4,036.8	
North Carolina										
September 1997 .....	197.0	W	724.6	2,295.2	562.7	2,857.9	3,582.5	W	3,780.3	
August 1997 .....	W	—	838.9	2,239.6	491.8	2,731.5	3,570.4	W	3,661.9	
September 1996 .....	191.7	W	849.2	2,234.4	435.8	2,670.3	3,519.5	W	3,711.8	
South Carolina										
September 1997 .....	W	—	348.7	1,315.8	185.4	1,501.2	1,849.9	W	1,940.7	
August 1997 .....	53.5	—	365.9	1,270.6	180.1	1,450.6	1,816.6	—	1,870.1	
September 1996 .....	97.3	—	342.3	1,143.5	154.6	1,298.1	1,640.4	—	1,737.6	
Virginia										
September 1997 .....	140.2	W	999.8	2,377.3	440.3	2,817.6	3,817.4	W	3,968.6	
August 1997 .....	W	—	898.7	2,264.4	403.5	2,667.9	3,566.6	W	3,636.4	
September 1996 .....	133.2	W	1,004.2	2,179.7	463.6	2,643.3	3,647.5	W	3,819.9	
West Virginia										
September 1997 .....	W	W	375.5	519.5	211.0	730.5	1,106.0	—	1,132.0	
August 1997 .....	W	W	417.1	424.5	209.4	633.9	1,051.0	—	1,061.5	
September 1996 .....	W	W	370.4	465.5	171.3	636.8	1,007.2	—	1,032.3	
PAD District II										
September 1997 .....	645.6	558.2	8,171.7	31,088.1	5,030.4	36,118.5	44,290.2	11.1	45,505.1	
August 1997 .....	409.3	W	7,557.9	28,395.7	4,805.5	33,201.2	40,759.0	W	41,502.3	
September 1996 .....	692.5	632.3	9,370.7	26,966.5	5,327.6	32,294.1	41,664.8	20.7	43,010.2	
Illinois										
September 1997 .....	27.0	83.0	1,481.5	2,757.1	425.3	3,182.3	4,663.8	—	4,773.9	
August 1997 .....	W	82.6	1,450.9	2,349.4	401.2	2,750.5	4,201.5	W	4,366.2	
September 1996 .....	35.7	87.6	1,455.0	2,472.6	526.5	2,999.1	4,454.1	—	4,577.4	
Indiana										
September 1997 .....	60.7	W	1,072.6	3,294.9	464.0	3,758.9	4,831.5	W	4,912.1	
August 1997 .....	25.3	W	1,111.2	2,959.3	418.4	3,377.7	4,488.9	W	4,528.9	
September 1996 .....	45.3	W	1,244.6	2,754.9	823.8	3,578.7	4,823.3	W	4,892.6	
Iowa										
September 1997 .....	8.2	49.1	252.7	2,129.3	113.2	2,242.5	2,495.2	—	2,552.5	
August 1997 .....	2.3	27.1	290.1	1,751.2	69.4	1,820.5	2,110.7	—	2,140.0	
September 1996 .....	2.7	59.6	524.7	1,796.1	89.2	1,885.3	2,410.0	—	2,472.3	
Kansas										
September 1997 .....	3.2	23.2	87.1	1,821.5	292.1	2,113.6	2,200.7	—	2,227.0	
August 1997 .....	1.3	8.6	125.4	1,780.2	197.5	1,977.6	2,103.1	—	2,113.0	
September 1996 .....	3.7	22.3	239.9	1,446.8	184.8	1,631.6	1,871.5	—	1,897.5	
Kentucky										
September 1997 .....	56.8	W	730.5	1,540.8	489.8	2,030.6	2,761.0	W	2,819.0	
August 1997 .....	19.2	W	633.8	1,396.6	537.5	1,934.1	2,568.0	W	2,588.5	
September 1996 .....	56.9	W	712.3	1,367.9	556.8	1,924.7	2,637.0	W	2,696.0	
Michigan										
September 1997 .....	58.5	36.5	794.0	2,306.4	261.3	2,567.7	3,361.7	—	3,456.7	
August 1997 .....	32.8	29.0	718.8	2,149.5	233.6	2,383.1	3,101.9	—	3,163.8	
September 1996 .....	150.0	43.0	936.6	2,065.0	226.5	2,291.5	3,228.1	—	3,421.1	
Minnesota										
September 1997 .....	W	135.2	549.3	1,933.4	343.0	2,276.4	2,825.7	W	3,198.9	
August 1997 .....	W	40.4	469.2	1,451.3	283.5	1,734.8	2,204.1	W	2,441.0	
September 1996 .....	W	137.8	724.1	1,717.5	432.2	2,149.7	2,873.8	W	3,205.2	
Missouri										
September 1997 .....	5.6	17.0	254.9	2,544.4	200.0	2,744.4	2,999.3	—	3,022.0	
August 1997 .....	1.5	10.7	229.4	2,517.6	138.1	2,655.7	2,885.1	—	2,897.3	
September 1996 .....	9.2	14.8	197.1	2,277.4	131.3	2,408.7	2,605.8	—	2,629.8	

See footnotes at end of table.

**Table 50. Prime Supplier Sales Volumes of Distillate Fuel Oils and Kerosene by PAD District and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Kerosene	No. 1 Distillate	No. 2 Distillate					No. 4 Fuel <sup>a</sup>	Total Distillate and Kerosene	
			No. 2 Fuel Oil	No. 2 Diesel Fuel			No. 2 Distillate			
				Low-Sulfur	High-Sulfur	Total				
Nebraska										
September 1997 .....	0.9	38.3	85.8	1,063.9	446.0	1,509.9	1,595.7	—	1,634.9	
August 1997 .....	W	W	145.5	991.0	705.5	1,696.5	1,842.0	—	1,848.6	
September 1996 .....	W	W	314.0	917.2	307.8	1,225.0	1,539.1	—	1,594.6	
North Dakota										
September 1997 .....	W	W	W	806.7	W	W	1,229.4	—	1,271.0	
August 1997 .....	—	9.0	260.2	756.3	113.7	870.0	1,130.3	—	1,139.2	
September 1996 .....	W	W	295.0	587.5	90.8	678.3	973.3	—	1,030.0	
Ohio										
September 1997 .....	96.6	W	1,088.1	3,501.1	702.8	4,203.9	5,292.0	W	5,395.9	
August 1997 .....	47.5	W	873.0	3,269.7	634.6	3,904.4	4,777.3	W	4,828.7	
September 1996 .....	102.7	W	1,127.1	2,842.6	744.5	3,587.1	4,714.2	W	4,824.3	
Oklahoma										
September 1997 .....	W	W	439.3	1,975.9	322.5	2,298.4	2,737.7	—	2,744.9	
August 1997 .....	2.9	0.7	414.1	2,007.2	258.9	2,266.0	2,680.2	—	2,683.8	
September 1996 .....	2.6	2.4	424.3	1,572.0	394.6	1,966.5	2,390.8	—	2,395.8	
South Dakota										
September 1997 .....	1.3	35.9	W	764.1	W	W	846.3	—	883.5	
August 1997 .....	1.2	8.6	44.4	682.0	19.3	701.3	745.6	—	755.5	
September 1996 .....	1.0	47.1	121.2	635.3	22.6	657.9	779.2	—	827.3	
Tennessee										
September 1997 .....	W	—	429.5	2,529.1	625.8	3,154.8	3,584.4	W	3,666.5	
August 1997 .....	37.9	W	370.6	2,496.0	613.2	3,109.3	3,479.9	W	3,519.2	
September 1996 .....	W	—	507.8	2,555.1	525.9	3,081.0	3,588.8	W	3,672.3	
Wisconsin										
September 1997 .....	W	70.8	551.0	2,119.5	195.2	2,314.8	2,865.8	W	2,946.3	
August 1997 .....	W	45.0	421.1	1,838.3	181.2	2,019.5	2,440.6	W	2,488.5	
September 1996 .....	W	78.1	547.0	1,958.6	270.2	2,228.8	2,775.9	W	2,874.1	
PAD District III										
September 1997 .....	203.3	1.9	1,992.9	14,920.2	7,397.8	22,318.1	24,311.0	—	24,516.2	
August 1997 .....	197.0	W	1,936.3	14,652.5	6,702.5	21,355.1	23,291.3	W	23,490.8	
September 1996 .....	102.1	4.4	1,828.2	13,715.9	6,751.0	20,466.9	22,295.1	—	22,401.6	
Alabama										
September 1997 .....	11.4	—	404.8	1,487.9	473.8	1,961.7	2,366.5	—	2,377.9	
August 1997 .....	6.6	—	413.6	1,423.9	437.5	1,861.4	2,275.0	—	2,281.7	
September 1996 .....	12.2	—	336.3	1,339.4	450.2	1,789.6	2,125.9	—	2,138.1	
Arkansas										
September 1997 .....	W	W	108.1	1,702.4	630.4	2,332.9	2,441.0	—	2,443.5	
August 1997 .....	W	W	92.8	1,520.8	671.1	2,191.9	2,284.7	—	2,285.4	
September 1996 .....	W	W	70.8	1,538.0	458.0	1,996.0	2,066.9	—	2,069.0	
Louisiana										
September 1997 .....	W	—	389.1	W	2,757.5	W	W	—	4,754.1	
August 1997 .....	W	—	431.1	W	2,346.9	W	W	—	4,482.2	
September 1996 .....	W	W	387.6	1,595.8	2,478.4	4,074.2	4,461.8	—	4,474.2	
Mississippi										
September 1997 .....	7.1	—	186.8	1,423.8	510.7	1,934.5	2,121.3	—	2,128.4	
August 1997 .....	W	—	161.1	1,291.9	594.5	1,886.3	2,047.4	W	2,051.9	
September 1996 .....	3.9	—	W	1,198.1	W	W	1,934.7	—	1,938.6	
New Mexico										
September 1997 .....	W	W	—	W	183.3	W	W	—	1,072.5	
August 1997 .....	W	W	—	W	165.7	W	W	—	982.8	
September 1996 .....	W	W	W	806.5	W	W	969.6	—	972.3	
Texas										
September 1997 .....	148.9	0.5	904.2	7,844.1	2,842.2	10,686.2	11,590.4	—	11,739.8	
August 1997 .....	136.2	1.8	837.6	7,944.3	2,486.9	10,431.2	11,268.8	—	11,406.8	
September 1996 .....	70.6	2.6	873.8	7,238.1	2,624.3	9,862.4	10,736.3	—	10,809.4	
PAD District IV										
September 1997 .....	7.0	80.5	W	5,076.2	W	W	6,151.1	—	6,238.6	
August 1997 .....	4.2	50.9	W	5,158.1	W	W	6,159.9	—	6,214.9	
September 1996 .....	8.2	119.6	W	4,642.1	W	W	5,710.5	—	5,838.3	
Colorado										
September 1997 .....	6.1	23.9	W	1,408.8	W	W	1,624.1	—	1,654.0	
August 1997 .....	2.4	13.8	W	1,393.8	W	W	1,624.3	—	1,640.5	
September 1996 .....	6.8	23.8	43.9	1,209.0	240.9	1,449.9	1,493.8	—	1,524.4	

See footnotes at end of table.

**Table 50. Prime Supplier Sales Volumes of Distillate Fuel Oils and Kerosene by PAD District and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Kerosene	No. 1 Distillate	No. 2 Distillate					No. 4 Fuel <sup>a</sup>	Total Distillate and Kerosene	
			No. 2 Fuel Oil	No. 2 Diesel Fuel			No. 2 Distillate			
				Low-Sulfur	High-Sulfur	Total				
Idaho										
September 1997 .....	W	W	W	677.7	W	W	934.5	—	943.8	
August 1997 .....	W	W	W	683.1	W	W	963.5	—	972.4	
September 1996 .....	0.6	20.4	W	609.9	W	W	854.5	—	875.5	
Montana										
September 1997 .....	—	24.4	—	W	W	948.2	948.2	—	972.7	
August 1997 .....	W	W	—	1,004.9	3.0	1,007.9	1,007.9	—	1,024.1	
September 1996 .....	W	W	W	747.3	W	W	749.9	—	787.8	
Utah										
September 1997 .....	W	W	W	848.5	W	W	1,161.5	—	1,165.6	
August 1997 .....	W	W	W	991.3	W	W	1,298.2	—	1,303.5	
September 1996 .....	W	W	W	942.9	W	W	1,243.5	—	1,259.9	
Wyoming										
September 1997 .....	—	19.8	—	W	W	1,482.7	1,482.7	—	1,502.5	
August 1997 .....	W	W	W	1,085.0	W	W	1,266.0	—	1,274.5	
September 1996 .....	—	21.8	W	1,133.0	W	W	1,368.8	—	1,390.6	
PAD District V										
September 1997 .....	48.1	321.7	W	15,994.8	W	W	20,163.7	125.7	20,659.3	
August 1997 .....	NA	273.6	W	14,599.3	W	W	18,759.7	132.6	19,191.5	
September 1996 .....	51.0	285.0	W	14,146.3	W	W	18,566.4	98.0	19,000.4	
Alaska										
September 1997 .....	W	293.4	W	17.5	W	W	891.8	W	1,279.8	
August 1997 .....	—	W	W	17.3	W	W	864.5	W	1,208.3	
September 1996 .....	—	W	313.1	53.8	381.2	435.0	748.1	W	1,042.0	
Arizona										
September 1997 .....	W	—	—	1,413.7	W	W	W	—	1,609.5	
August 1997 .....	W	—	—	W	186.1	W	W	—	1,621.4	
September 1996 .....	—	—	W	1,344.8	W	W	1,557.9	—	1,557.9	
California										
September 1997 .....	NA	W	NA	10,452.1	478.2	10,930.3	10,940.0	W	10,970.2	
August 1997 .....	NA	W	NA	9,134.0	549.0	9,683.0	9,691.3	W	9,708.0	
September 1996 .....	21.3	W	W	8,919.2	W	W	10,064.9	W	10,100.5	
Hawaii										
September 1997 .....	—	—	—	94.8	W	W	W	—	466.2	
August 1997 .....	—	—	—	W	350.4	W	W	—	446.0	
September 1996 .....	—	—	W	102.0	W	W	W	—	544.8	
Nevada										
September 1997 .....	—	—	—	754.3	65.1	819.4	819.4	—	819.4	
August 1997 .....	—	—	—	654.3	74.3	728.5	728.5	—	728.5	
September 1996 .....	—	W	—	643.1	W	W	W	—	751.7	
Oregon										
September 1997 .....	NA	W	—	1,318.3	710.3	2,028.6	2,028.6	W	2,051.0	
August 1997 .....	W	NA	—	1,370.1	667.8	2,037.9	2,037.9	W	2,061.8	
September 1996 .....	W	7.1	W	1,304.9	W	W	1,963.2	W	1,992.9	
Washington										
September 1997 .....	W	20.8	10.1	1,944.1	1,454.5	3,398.6	3,408.7	W	3,463.1	
August 1997 .....	10.6	W	20.5	1,893.1	1,456.8	3,349.9	3,370.5	W	3,417.5	
September 1996 .....	W	25.1	34.3	1,778.4	1,124.1	2,902.5	2,936.8	W	3,010.6	

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Notes: Total Distillate = No. 1 Distillate + No. 2 Distillate + No. 4 Fuel Oil.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*. Totals may not equal the sum of the components due to rounding.

<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

Source: Energy Information Administration, Form EIA-782C, "Monthly Report of Prime Supplier Sales of Petroleum Products Sold for Local Consumption."



## Explanatory Notes



# Explanatory Notes

## The EIA-782 Survey

### Background

The EIA-782 surveys were implemented in 1983 to fulfill the data requirements necessary to meet Energy Information Administration (EIA) legislative mandates and user community data needs. The requirements include petroleum product price, market distribution, demand (or sales), and product supply data, which are needed for a complete evaluation of petroleum market performance. The EIA-782 series includes the Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report"; Form EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report"; and Form EIA-782C, "Monthly Report of Prime Supplier Sales of Petroleum Products Sold for Local Consumption."

The Form EIA-782A collects refiner and gas plant operator monthly price and volume data at a State level on 14 petroleum products for various retail and wholesale marketing categories. The Form EIA-782B collects reseller/retailer monthly price and volume data at a State level for gasoline, No. 2 distillate, propane, and residual fuel. The Form EIA-782C collects prime supplier monthly volume data on 15 petroleum products. The EIA-782 forms were modified in October 1993 to reflect the changes in refined petroleum products arising out of the requirements of the Clean Air Act Amendments of 1990 (CAAA). The CAAA require that oxygenated gasoline be sold during the winter months in carbon monoxide nonattainment areas beginning October 1, 1992. They require that reformulated gasoline be sold in ozone nonattainment areas beginning January 1, 1995. Beginning October 1, 1993, diesel fuel sold for on-highway use must be low-sulfur diesel fuel (i.e., diesel fuel containing less than or equal to 0.05 percent sulfur). As a result of these environmental regulations, gasoline data collected on the EIA-782 forms were divided into *conventional*, *oxygenated*, and *reformulated* categories. Diesel fuel sales were separated into low- and

high-sulfur categories. The wholesale gasoline categories on the EIA-782A and EIA-782B forms were also modified to include *dealer tank wagon*, *rack*, and *bulk* sales. The retail categories for propane on the EIA-782A and EIA-782B were expanded to include *residential*, *commercial/institutional*, *industrial*, *sales through company-operated retail outlets*, *petrochemical*, and *other end user* sales.

### Discussion of Sample Design

The Form EIA-782A is sent to a census of refiners and gas plant operators. Respondents are selected with certainty due to their small number and because of the relative size of their sales volume.

The Form EIA-782B is sent to a scientifically selected sample of motor gasoline resellers, and distillate, propane, and residual fuel oil resellers and retailers. The Form EIA-863, "Petroleum Product Sales Identification Survey," served as the basis of the sampling frame of dealers. Information obtained from the Form EIA-863 is supplemented with information from the Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report." The sales volumes obtained from these surveys are used to assign measures of size for sampling. Dealers comprising 5 percent or more of sales in a State were selected with certainty. The remaining units on the frame were each assigned a probability of selection. In this design, the probability was based on the size of the company, as determined by their sales volume, relative to the total for all companies for each geographic area and type-of-sale classification relevant for that company. In addition, a random number between 0 and 1 was assigned to each company. The companies were then ordered by the ratio of the random number minus the random number times the probability to the probability minus the random number times the probability  $(r-rp)/(p-rp)$ . The first 2,200 companies in this ordering were then selected for the sample. The noncertainty companies were then post-stratified within each geographic/type-of-sale category by their volume. The sample weights, the inverse of the probabilities, were



multiplied by the sample expectation adjustment which was the ratio of the sum of the probabilities of selection for all frame units in the stratum to the actual sample size of the stratum.

The geographic areas were defined as (a) the 24 States in which No. 2 distillate was a significant heating source and 50 States and the District of Columbia for residual and motor gasoline, (b) the 25 States in which propane was a significant energy source, or as (c) the PAD Districts for districts where not all State estimates are provided. The type-of-sale classifications were retail and resale for motor gasoline and residual fuel oil, and residential and nonresidential retail and wholesale for distillate and propane. Four volume-of-sales strata (certainty, zero, low, and high) were defined with volume boundaries differing by State, sales type, and product.

The design of the EIA-782B sample was based on ten target variables: total retail motor gasoline, total wholesale motor gasoline, residential No. 2 fuel oil, other retail No. 2 fuel oil, total wholesale No. 2 fuel oil, residential propane, total other retail propane, wholesale propane, total retail residual fuel oil, and total wholesale residual fuel oil. A sample size of 2,200 was expected to yield a median level of accuracy for each target variable of volume coefficients of variation (CV) of 15 percent for No. 2 distillate and 10 percent for the other products, determined at the publishable State level (24 States for distillate, 25 for propane, 50 States and the District of Columbia for motor gasoline and residual). Studies on the relationship of volume CV to price CV have shown that this will produce price CVs of less than 1 percent. The reliability of current month estimates will vary from these goals due to the deterioration of the frame over time and the changing distributions of price and volume.

Prior to March 1997, the sample design was a linked stratified sample. Within each product, sales type, and geographic area, companies were stratified by the size of the company as determined by their sales volumes. The samples resulting from the separate stratification schemes were combined by means of joint linked selection to yield a sample size of approximately 3,500 companies. Prior to October of 1993, the sample design, the survey sample, and the survey form did not include propane.

The Form EIA-782C was sent to all prime suppliers of any of the selected products on the EIA-782C. A prime supplier is a firm that produces, imports, or transports any of the selected petroleum products

across State boundaries and local marketing areas and sells the product to local distributors, local retailers, or end users. They were selected with certainty due to their small number and the relative size of their sales volumes.

## Discussion of the Sampling Frame

The EIA-782A survey consists of a census of respondents who either directly or indirectly control a refinery or gas plant facility. The EIA-782A form collects sales data on 14 refined petroleum products. Currently, 134 companies respond to the EIA-782A survey.

The EIA-863 data base provided the sampling frame for the EIA-782B survey. The Form EIA-863, "Petroleum Product Sales Identification Survey," was mailed to approximately 22,000 companies in January 1995, in order to collect 1994 State-level sales volume data for No. 2 distillate, residual, and motor gasoline. The No. 2 distillate data were further identified by residential/nonresidential end-use and non-end-use sales, while the residual and motor gasoline data were identified by end-use and non-end-use sales. The mailing list for the EIA-863 survey was constructed by merging and unduplicating the previous master frame file and approximately 71 State and commercial lists.

Data from the 1994 EIA-821, "Annual Fuel Oil and Kerosene Sales Report" survey were merged with data from the EIA-863 survey to yield a combined file. A transformed and edited version of this file was created to form the sample file used to design and select the EIA-782B sample.

NOTE: Service stations and smaller truck stops selling No. 2 diesel fuel were not specifically included in the frame. Therefore, the EIA-782B end-use category, "sales through company outlets," does not incorporate all sales of No. 2 distillate.

The EIA-782C survey consists of a census of suppliers who produce, import, or transport any of the 15 refined petroleum products listed on the form across State boundaries and local marketing areas, and who sell the product to local distributors, local retailers, or end users. Currently, 214 firms respond to the EIA-782C survey.

## Reliability of Data

There are two types of errors possible in an estimate based on a sample survey: sampling and nonsampling. Sampling errors occur because observations are made only on a sample, not on the entire population. Non-sampling errors can be attributed to many sources in the collection and processing of data. The accuracy of survey results is determined by the joint effects of sampling and nonsampling errors.

## Measures of Sampling Variability

Tables 14 through 18, 31 through 34, and 38 through 41 utilize a sample of nonrefiners and, therefore, have sampling error. The remainder of the tables published are based on census data; therefore, there is no error due to sampling. The particular sample used for the EIA-782B is one of a large number of all possible samples that could have been selected using the same design. Estimates derived from the different samples would differ from each other. The average of these estimates would be close to the estimate derived from a complete enumeration of the population (a census), assuming that a complete enumeration has the same nonsampling errors as the sample survey.

The sampling error, or standard error of the estimate, is a measure of the variability among the estimates from all possible samples of the same size and design and, thus, is a measure of the precision with which an estimate from a particular sample approximates the results of a complete enumeration.

## Nonsampling Errors

Nonsampling errors can be attributed to many sources: (1) inability to obtain complete information about all cases in the sample (i.e., nonresponse), (2) response errors, (3) definitional difficulties, (4) differences in the interpretation of questions, (5) mistakes in recording or coding the data obtained, and (6) other errors of collection, response, coverage, and estimation for missing data. These nonsampling errors also occur in complete censuses.

Although no direct measurement of the biases due to nonsampling errors can be obtained, precautionary steps were taken in all phases of the frame development and data collection, processing, and tabulation processes, in an effort to minimize their influence. In addition, the close cooperative consultation between EIA and the EIA-782 survey respondents and data

users results in a more accurate information gathering and reporting process.

## Imputation and Estimation

Survey data gathered from the respondents invariably contain incomplete reporting, nonresponse, and values that fail editing. These missing data are estimated, or imputed for, as follows. First, for all survey units, the previous month's reported value and the previous month's predicted value are weighted together to yield a predicted value for the current month. The sum of the weighted, predicted values for nonrespondents in the current month is then multiplied by a chain link multiplier (the ratio of the sum of the weighted, reported values for respondents in the current month to the sum of the weighted, predicted values for respondents in the current month). The resulting estimate for nonreported values is then added to the reported values. That is,

$$\hat{V}_t = \sum_{R,h} W_{i,h}^* V_{i,h,t} + \sum_{NR,h} W_{j,h}^* V'_{j,h,t}$$

and similarly

$$\hat{Q}_t = \sum_{R,h} W_{i,h}^* V_{i,h,t} P_{i,h,t} + \sum_{NR,h} W_{j,h}^* V'_{j,h,t} P_{j,h,t}$$

where

$$V'_{j,h,t} = \frac{\sum_{R,h,PADD} W_{i,h}^* V_{i,h,t}}{\sum_{R,h,PADD} W_{i,h}^* \tilde{V}_{i,h,t}} \tilde{V}_{j,h,t}$$

$$P'_{j,h,t} = \frac{\sum_{R,h,PADD} P_{i,h,t}}{\sum_{R,h,PADD} \tilde{P}_{i,h,t}} \tilde{P}_{j,h,t}$$

and,

$$W_{i,h}^* = \frac{\sum_{N_h} i}{n_h} (W_{i,h})$$

$W_{i,h}$  = the weight for company  $i$  in stratum  $h$ .  
For resellers/retailers responding to

EIA-782B,  $W_{i,h}$  is inversely proportional to the probability of inclusion. For all certainty units  $W_{i,h} = 1$ . The certainty units are all respondents to the EIA-782A, the EIA-782C, and the units selected with certainty for the EIA-782B.

$N_h$  = total number of population units in stratum h,

$n_h$  = number of sampled units in stratum h,

$\sum_{R,h}$  = summation across current month respondents i, all strata

$\sum_{NR,h}$  = summation across current month nonrespondents j, all strata

$V_{i,h,t}$  = current month (t) reported volume for company i, in stratum h

$P_{i,h,t}$  = current month (t) reported price for company i, in stratum h

$\hat{V}_t$  = current month (t) estimated total volume,

$\hat{Q}_t$  = current month (t) estimated total revenue,

$\tilde{V}_{i,t}$  = current month (t) predicted volume for company i, respondent,

$\tilde{P}_{i,t}$  = current month (t) predicted price for company i, respondent,

$$\tilde{V}_{i,t} = \alpha V'_{i,t-1} + (1 - \alpha) V_{i,t-1}$$

$$\tilde{P}_{i,t} = \alpha P'_{i,t-1} + (1 - \alpha) P_{i,t-1}$$

where

$V_{i,t-1}$  = previous month (t-1) reported volume for company i,

$P_{i,t-1}$  = previous month (t-1) reported price for company i,

$\alpha$  = constant between 0 and 1, set by form, product, type of sale and price or volume,

and

$$\hat{P}_t = \frac{\hat{Q}_t}{\hat{V}_t},$$

the resulting estimate of price at the published level for month t.

Multiple product data collection and linked sample selection yield two types of respondents: basic and supplemental. Both types are used for imputation, estimation, and standard errors.

The variance estimate is :

$$VAR(\hat{P}_t) = \frac{1}{\hat{V}_t^2} \sum_k N_k^2 n_k (1 - f_k) \frac{M_k}{(\sum_i W_{ik})^2}$$

where

$N_k$  = the number of population units in group k,

$n_k$  = the number of basic and volunteer respondents in group k,

$W_{ik}$  = the sampling weight for respondent i in group k,

$$f_k = \frac{n_k}{N_k}$$

and  $\hat{P}_t$  and  $\hat{V}_t$  are previously defined.

The term  $M_k$  is computed as follows:

$$M_k = \frac{\sum_i (M_{ik})^2}{n_k - 1}$$

where

$$M_{ik} = W_{ik} V_{ik} D_{ik} - \frac{W_{ik}}{(\sum_i W_{ik})} \times (\sum_i W_{ik} V_{ik} D_{ik})$$

and

$$D_{ik} = P_{ik} - \hat{P}_t$$

$V_{ik}$  = reported volume for respondent i in group k

$P_{ik}$  = reported price for respondent i in group k.

## Data Continuity

When the EIA-782 series was implemented in 1983, it replaced prior surveys that had been used to meet the Energy Information Administration's data requirements. The Form EIA-782A replaced the refiner and gas plant operator portions of the Form EIA-460, "Petroleum Industry Monthly Report for Product Prices"; and Form EIA-9A, "No. 2 Distillate Price Monitoring Report"; the Form EIA-782B replaced the nonrefiner portions of the Form EIA-460 and Form EIA-9A; and the Form EIA-782C replaced Form EIA-25, "Prime Supplier's Monthly Report."

Since the transition from the EIA-460, the EIA-9A, and the EIA-25 to the EIA-782 took place over a period of 4 months, rather than occurring at one time, it was possible to compare data from the predecessor surveys with data from the new survey during the transition period for some data elements. This comparative analysis yielded adjustment factors which reflected the estimated overall effect of the changes.

These adjustment factors were applied to the appropriate predecessor survey prices to yield a backcast estimate. A complete description of the estimation of historical data prior to January 1983 is contained in the feature article of the December 1983(3) issue of the PMM.

The backcast price estimation employed the predecessor survey published price as the initial approximation. The initial approximation, however, frequently represented less aggregated product categories and more aggregated seller/sales categories. Therefore, more comparable product categories were formed by volume weighting the disaggregated predecessor survey product prices. For the EIA-9A, comparable categories were formed by subtracting from the price the average taxes reported. Comparable seller/sales categories were formed by multiplying the predecessor price by the ratio of the EIA-782 price for the category to be estimated divided by the volume weighted prices for the aggregate of the EIA-782 categories most comparable to the predecessor category. That is,

$$\hat{P}_{460,i} = \hat{P}_{460,j} \frac{\hat{P}_{782,i}}{\hat{P}_{782,j}}$$

where i represents the EIA-782 category to be backcast and j represents the most similar category on the predecessor survey.

The backcast price series were estimated by multiplying the estimate for the previous time period from the predecessor survey by an adjustment factor:

$$\hat{P}_{782,i,t} = \hat{P}_{Predecessor,t} \times (Adjustment\ Factor)$$

where t = reference month.

Adjustment factors were computed by dividing the EIA-782 December price by the derived December predecessor price for comparable categories:

$$Adjustment\ Factor = \frac{\hat{P}_{782,i,December}}{\hat{P}_{Predecessor,i,December}}$$

The EIA-782 December 1982 price for all respondents had to be estimated since not all of the EIA-782 respondents were reporting in December. This estimate was based on the average of the ratios of the prices for the December respondents to the prices for all respondents in January, February, and March of 1982. That is,

$$\hat{P}_{782,i,December} = \hat{P}_{782,i,r,December} \div \frac{\sum_m \frac{\hat{P}_{782,i,r,m}}{\hat{P}_{782,i,m}}}{3}$$

where r = respondents who reported in the December reference month and m = the months of January, February, and March.

Starting with the September 1990 final estimates, prices published are derived using the sample described under "Discussion of Sample Design." Prices published for January 1984 through August 1990 were derived using different samples and slightly different designs (refer to the 1987 PMA for a further description). Also, the monthly price estimates from January through December 1983 were derived using another sample design (see the December 1983(3) issue of the PMM). Therefore, there may be some minor discontinuity in price estimates between August 1988 and September 1988 and between December 1983 and January 1984.

**Table EN1. Federal and State Motor Fuel Taxes<sup>1</sup>**  
(Cents per Gallon)

	Motor Gasoline	Diesel Fuel	Gasohol		Motor Gasoline	Diesel Fuel	Gasohol
Federal <sup>2</sup> . . . . .	18.30	24.30	13.00	Mississippi <sup>4</sup> . . . . .	18.00	18.00	18.00
Average State Tax . . .	19.92	19.70	19.75	Missouri <sup>4</sup> . . . . .	17.04	17.04	17.04
				Montana <sup>4</sup> . . . . .	27.75	28.50	27.75
Alabama <sup>4</sup> . . . . .	18.00	19.00	18.00	Nebraska . . . . .	25.40	25.00	25.40
Alaska . . . . .	8.00	8.00	8.00	Nevada <sup>4</sup> . . . . .	23.80	27.80	23.80
Arizona . . . . .	18.00	18.00	18.00	New Hampshire . . . . .	19.60	19.60	19.60
Arkansas . . . . .	18.60	18.60	18.60	New Jersey <sup>3</sup> . . . . .	10.50	13.50	10.50
California <sup>3,4</sup> . . . . .	18.60	18.60	18.60	New Mexico . . . . .	18.88	19.88	18.88
Colorado . . . . .	22.00	20.50	22.00	New York <sup>3,4</sup> . . . . .	22.80	22.65	22.65
Connecticut <sup>3</sup> . . . . .	36.00	18.00	35.00	North Carolina . . . . .	22.60	22.60	22.60
Delaware . . . . .	23.00	22.00	23.00	North Dakota . . . . .	20.03	20.03	20.03
District of Columbia . .	20.00	20.00	20.00	Ohio . . . . .	22.00	22.00	22.00
Florida <sup>4</sup> . . . . .	12.80	12.80	12.80	Oklahoma . . . . .	17.00	14.00	17.00
Georgia <sup>3,4</sup> . . . . .	7.70	7.70	7.70	Oregon <sup>4</sup> . . . . .	24.00	24.00	24.00
Hawaii <sup>3,4</sup> . . . . .	16.00	16.00	16.00	Pennsylvania . . . . .	25.82	25.82	25.82
Idaho . . . . .	26.00	26.00	23.50	Rhode Island . . . . .	29.00	29.00	29.00
Illinois <sup>3,4</sup> . . . . .	20.10	22.60	20.10	South Carolina <sup>4</sup> . . . . .	16.75	16.75	16.75
Indiana <sup>3</sup> . . . . .	15.80	16.80	15.80	South Dakota . . . . .	21.00	21.00	19.00
Iowa <sup>3</sup> . . . . .	20.00	22.50	19.00	Tennessee . . . . .	21.40	18.40	21.40
Kansas . . . . .	18.03	20.03	18.03	Texas . . . . .	20.00	20.00	20.00
Kentucky . . . . .	16.40	13.40	16.40	Utah . . . . .	24.50	24.50	24.50
Louisiana . . . . .	20.00	20.00	20.00	Vermont . . . . .	16.00	17.00	16.00
Maine . . . . .	19.00	20.00	19.00	Virginia <sup>3</sup> . . . . .	18.10	16.60	18.10
Maryland . . . . .	23.50	24.25	23.50	Washington <sup>4</sup> . . . . .	23.00	23.00	23.00
Massachusetts . . . . .	21.00	21.00	21.00	West Virginia <sup>3</sup> . . . . .	20.50	20.50	20.50
Michigan <sup>3</sup> . . . . .	15.88	15.88	15.88	Wisconsin . . . . .	26.80	26.80	26.80
Minnesota <sup>3</sup> . . . . .	20.00	20.00	15.00	Wyoming . . . . .	9.00	9.00	9.00

<sup>1</sup> This figure lists rates of general application (including, but not limited to, excise taxes, environmental taxes, special taxes, and inspection fees), exclusive of county and local taxes. Rates are also exclusive of any State taxes based on gross or net receipts. The State rates are effective July 1, 1997.

<sup>2</sup> The Federal tax on motor gasoline and diesel fuel decreased to 18.3 and 24.3 cents, respectively, on January 1, 1996.

<sup>3</sup> Additional State taxes are levied as follows: California: 7.25 percent sales tax; Connecticut: 5 percent gross earnings tax; Georgia: 3 percent sales tax; Hawaii: 4 percent gross income tax; Illinois: 6.25 percent sales tax; Indiana: 5 percent sales tax; Iowa: 1 percent environmental protection tax; Michigan: 4 percent sales tax; Minnesota: clean-up fund rate of 1.5 - 2.0 cents per gallon based on storage size; New Jersey: gross receipts tax of 4 cents per gallon for on-highway use fuels; New York: 4 percent sales tax; Virginia: 2 percent sales tax in areas where mass transit systems exist; West Virginia: Consumer and sales tax of 4.85 cents per gallon.

<sup>4</sup> Local option taxes (LOTS) are allowed. In Florida, the State assesses a State Comprehensive Enhanced Transportation System (SCETS) tax which is two-thirds of each county's rate. In addition, the State collects a "ninth cent tax" and a second local tax. These taxes add an average of 11.3 cents to the motor fuel State tax. In Hawaii, LOTS are as follows: Honolulu: 16.5 cents per gallon; Maui: 13.0 cents per gallon; Hawaii: 8.8 cents per gallon; Kauai: 10.0 cents per gallon.

**Table EN 2. U.S. Postal Two-Letter State Abbreviations**

State Code	State	State Code	State	State Code	State
AL	Alabama	KY	Kentucky	ND	North Dakota
AK	Alaska	LA	Louisiana	OH	Ohio
AZ	Arizona	ME	Maine	OK	Oklahoma
AR	Arkansas	MD	Maryland	OR	Oregon
CA	California	MA	Massachusetts	PA	Pennsylvania
CO	Colorado	MI	Michigan	RI	Rhode Island
CT	Connecticut	MN	Minnesota	SC	South Carolina
DE	Delaware	MS	Mississippi	SD	South Dakota
DC	District of Columbia	MO	Missouri	TN	Tennessee
FL	Florida	MT	Montana	TX	Texas
GA	Georgia	NE	Nebraska	UT	Utah
HI	Hawaii	NV	Nevada	VT	Vermont
ID	Idaho	NH	New Hampshire	VA	Virginia
IL	Illinois	NJ	New Jersey	WA	Washington
IN	Indiana	NM	New Mexico	WI	Wisconsin
IA	Iowa	NY	New York	WV	West Virginia
KS	Kansas	NC	North Carolina	WY	Wyoming

## Collection Methods

Survey data are collected by mail every month. It is mandatory for each respondent to submit completed forms to EIA within the specified time allotted. For the EIA-782A and B, completed forms must be submitted no later than 30 calendar days after the close of each reference month. For the EIA-782C, completed forms must be submitted no later than 20 calendar days after the close of the reference month. Telephone follow-up calls to nonrespondents begin the day after the established due date in order to collect all outstanding data. Late submissions and resubmissions are processed when received.

## Data Processing

As EIA-782 forms are received, they are logged into an automated Survey Control File which maintains monthly status codes for each company. The data are

reviewed manually and then entered onto the computer files. They are then processed through an automated edit program which detects missing data, inconsistent prices, volumes and prices that significantly differ from those previously reported by the company, and outlying values that will affect published estimates. Data that fail the edits are resolved through telephone calls to the data reporters, and corrections and verification codes are entered onto the computer files. Statistical reports, including publication tables, are then generated using only acceptable and verified data.

## Nondisclosure

The data contained in this publication are subject to statistical nondisclosure procedures. The objective of the disclosure-avoidance procedures, as stated in the Energy Information Administration Standard 88-05-06, Subject: "Nondisclosure of Company Identifiable

Data in Aggregate Cells," is to ensure that confidential, company-identifiable data are not disclosed in tables where "company specific responses may be proprietary and prohibited from public disclosure by 18 U.S.C. 1905." Statistics representing data aggregated from fewer than three companies or that are dominated by input from one or two companies are withheld. EIA identifies cells that are sensitive according to these criteria by applying a statistical formula to the data contained in each cell to determine if a few companies "dominate" the cell.

If a cell is sensitive, the data in that cell are suppressed and a "W" is placed in the publication cell. Also, since many tables include row or column totals, some non-sensitive data cells have been suppressed to prevent the reader from calculating the suppressed numbers by simply subtracting the published numbers from the total.

### Relationship of Refiner and Prime Supplier Sales Volumes

The refiner sales volumes collected on the EIA-782A are related to the prime supplier sales volumes collected on the EIA-782C, but conceptual differences exist that cause variations between these data. In general, EIA-782A volumes are intended to reflect *refiner sales* of petroleum products into *all secondary and tertiary markets*, while EIA-782C volumes are designed to measure *prime supplier sales* into only the *local markets of final consumption*. Specifically:

The reporting universe for the EIA-782C survey is significantly larger than that of the EIA-782A. While nearly all refiners and gas plant operators report on both surveys (a small number do not qualify as prime suppliers), some large, inter-State distributors and retailers, as well as some importers, report only on the EIA-782C.

EIA-782A respondents are asked only to exclude sales to other refiners (that is, other respondents that comprise the primary market), while EIA-782C respondents are asked to exclude sales to any company that is not a local distributor, local retailer, or end user (DRE). Therefore, EIA-782C respondents are asked not only to exclude sales to refiners, but also to most large inter-State resellers, importers, traders, and retailers who transport products across State boundaries.

The EIA-782A is designed to gather data on the sales of selected petroleum products made in each State,

regardless of where the products are physically located or will be consumed. In contrast, the EIA-782C is designed to collect data reflecting only delivered sales of selected petroleum products into those States where the products are expected to be locally consumed.

Consequently, EIA-782A and EIA-782C volumetric data generally vary at national, regional, and State levels. In particular, differences are expected in States and regions in which major supply origination, pipeline distribution, or transfer points are located. In these States, large volumes of products may change hands many times, often for eventual shipment outside the State. Since the EIA-782C is intended to measure only those sales into the final local markets of consumption (sales to DREs), all preceding sales are excluded. Furthermore, sales by EIA-782C respondents are reported wherever the product was delivered, which may differ from the State where title transferred. In contrast, the EIA-782A reflects all sales made to secondary resellers, wherever title transfers.

Additionally, the EIA-782C reflects imports by firms that are neither refiners nor gas plant operators, that would not be measured on the EIA-782A unless they were transferred to a distribution chain. This mostly affects regions with a high level of product imports, such as the New England or Mid-Atlantic States.

Therefore, States with major refining areas, such as Texas or California, generally show higher volumes on the EIA-782A survey than the EIA-782C survey, since some of the volumes reported on the EIA-782A are excluded on the EIA-782C or are reported in different States. Conversely, net consuming States (e.g., most PAD District I and PAD District II States) may show larger prime supplier sales on the EIA-782C due to inter-State movements or imports by resellers and/or differences in State of delivery versus title transfer. However, this may be partially or entirely offset by some refiners reporting larger sales volumes on the EIA-782A than on the EIA-782C (due to fewer exclusions taken on the EIA-782A).

In summary, caution should be exercised when comparing sales volumes between refiners and prime suppliers. Whereas EIA-782A data reflect the marketing of products by refiners to non-refiners where the sale occurs, EIA-782C data reflect prime supplier sales to local distributors, local retailers, and end users where the product is delivered. Therefore, the EIA-782A and EIA-782C surveys differ by the respondents reporting (refiners versus prime suppli-

**Table EN3. Revision Error in Selected 1996 U.S. Average Price Data**  
(Cents per Gallon Excluding Taxes)

Date	Refiner/Reseller Unleaded Regular Sales to End Users			No. 2 Distillate Sales to Residential Customers			Residual Fuel Oil Sales to End Users		
	PMM	Final	Difference	PMM	Final	Difference	PMM	Final	Difference
January . . . . .	69.9	70.1	-0.2	94.7	94.6	0.1	49.1	49.7	-0.6
February . . . . .	70.5	70.5	0.0	95.9	95.9	0.0	46.7	46.2	0.5
March . . . . .	75.6	75.6	0.0	99.1	99.1	0.0	46.1	46.4	-0.3
April . . . . .	84.1	84.0	0.1	101.5	101.5	0.0	46.3	46.4	-0.1
May . . . . .	87.6	87.6	0.0	97.8	97.8	0.0	44.1	44.4	-0.3
June . . . . .	85.1	85.1	0.0	90.8	91.0	-0.2	41.0	41.0	0.0
July . . . . .	82.9	82.9	0.0	88.6	87.9	0.7	40.8	40.8	0.0
August . . . . .	81.1	81.1	0.0	88.0	88.1	-0.1	41.7	42.1	-0.4
September . . . . .	81.0	81.0	0.0	94.5	94.5	0.0	44.4	44.5	-0.1
October . . . . .	81.5	81.5	0.0	102.6	102.6	0.0	48.6	48.8	-0.2
November . . . . .	84.0	84.0	0.0	105.4	105.4	0.0	50.6	50.7	-0.1
December . . . . .	83.7	83.7	0.0	107.3	107.5	-0.2	51.3	51.6	-0.3

Sources: PMM data are from Tables 15, 31, and 42 of the *Petroleum Marketing Monthly*. Final data are from Tables 15, 31, and 42 of the *Petroleum Marketing Annual*, 1996.

**Table EN4. Revision Error in Selected 1996 Refiner Sales Volume Data**  
(Million Gallons)

Date	Motor Gasoline Sales for Resale			No. 2 Distillate Sales for Resale			Residual Fuel Oil Sales to End Users		
	PMM	Final	Percent Change	PMM	Final	Percent Change	PMM	Final	Percent Change
January . . . . .	264.5	264.5	0.0	118.4	119.1	-0.6	13.4	14.4	-7.5
February . . . . .	284.2	283.4	0.3	123.3	123.7	-0.3	15.0	15.0	0.0
March . . . . .	281.5	280.3	0.4	118.8	119.4	-0.5	12.8	12.7	0.8
April . . . . .	300.5	299.7	0.3	120.2	120.3	-0.1	11.9	11.8	0.8
May . . . . .	301.8	301.4	0.1	111.4	110.5	0.8	11.0	10.7	2.7
June . . . . .	307.0	306.8	0.1	109.7	109.6	0.1	11.3	11.3	0.0
July . . . . .	310.6	310.4	0.1	109.7	109.4	0.3	11.7	11.8	-0.6
August . . . . .	306.7	306.9	-0.1	111.2	111.3	-0.1	11.7	12.3	-5.1
September . . . . .	286.3	286.4	0.0	112.1	112.0	0.1	9.5	10.9	-14.7
October . . . . .	293.8	293.7	0.0	125.5	125.2	0.2	12.4	13.5	-8.9
November . . . . .	292.6	292.6	0.0	118.9	119.1	-0.2	13.9	14.3	-2.9
December . . . . .	296.5	297.0	-0.2	121.3	122.1	-0.7	15.4	15.7	-1.9

Sources: PMM data are from Tables 7, 46, and 47 of the *Petroleum Marketing Monthly*. Final data are from Tables 7, 46, and 47 of the *Petroleum Marketing Annual*, 1996.



**Table EN5. Revision Error in Selected Volumes of 1996 First Sales Data**  
(Million Gallons)

Date	Total Motor Gasoline			Total No. 2 Distillate			Total Residual Fuel Oil		
	PMM	Final	Percent Change	PMM	Final	Percent Change	PMM	Final	Percent Change
January . . . . .	311.6	311.4	0.1	150.0	150.9	-0.6	37.2	37.3	-0.3
February . . . . .	327.5	326.9	0.2	154.0	154.0	0.0	34.3	34.2	0.3
March . . . . .	331.6	331.2	0.1	141.6	142.0	-0.3	32.2	32.1	0.3
April . . . . .	342.6	342.3	0.1	140.1	140.8	-0.5	27.5	27.4	0.4
May . . . . .	346.3	345.8	0.1	130.4	130.6	-0.2	23.6	23.1	2.1
June . . . . .	348.3	348.3	0.0	127.7	128.1	-0.3	26.4	26.2	0.8
July . . . . .	353.7	353.6	0.0	125.8	126.6	-0.6	27.2	27.0	0.7
August . . . . .	356.0	355.3	0.2	131.1	131.4	-0.2	28.1	27.6	1.8
September . . . . .	335.3	334.8	0.1	130.3	130.7	-0.3	24.2	23.8	1.7
October . . . . .	345.7	344.5	0.3	144.2	144.9	-0.5	25.9	25.9	0.0
November . . . . .	340.9	339.9	0.3	140.6	141.0	-0.3	29.5	29.5	0.0
December . . . . .	337.1	336.4	0.2	139.0	139.5	-0.4	33.2	33.4	-0.6

Sources: PMM data are from Tables 48, 49, and 50 of the *Petroleum Marketing Monthly*. Final data are from Tables 48, 49, and 50 of the *Petroleum Marketing Annual*, 1996.

ers), the types of sales reported (sales to non-refiners versus sales to DREs), and the location of the reported sales (point of title transfer versus destination of the sale).

## Revision Error

The petroleum product price and volume data shown for the current month are preliminary. These numbers may be revised in the next month's publication based on data received late or revisions received. For example, if the latest data shown are for the month of February, the February data are preliminary and the January data may have been revised due to the receipt of late or revised data. The data are final upon publication in the *Petroleum Marketing Annual* (PMA). The difference between the data when they appear in the *Petroleum Marketing Monthly* (PMM) and when they appear in the PMA is called the revision error. The amount of revision error for some selected EIA-782 data series is shown in Tables EN3 - EN5.

## The Crude Oil Price Surveys

### Background

#### Form EIA-182: "Domestic Crude Oil First Purchase Report"

Each month, the Form EIA-182 collects data from the buyers on first purchases of domestic crude oil. A "first purchase" constitutes a transfer of ownership of crude oil during or immediately after the physical removal of the crude oil from a production property for the first time. Transactions between affiliated companies are reported as if they were "arms-length" transactions. (This definition is consistent with the Windfall Profits Tax (WPT) concepts of "first sale" and "removal price.") The primary objective is to calculate an average first purchase price at various levels of aggregation. A company's monthly average first purchase prices are volume weighted across given geographical areas for selected crude streams and gravity bands. Prices are computed from the following reported data elements:

**Area of production.** The producing State or non-State production "area" (i.e., Alaska North Slope, Alaska Other Mainland, Federal Offshore California and Federal Offshore Gulf--about one-fifth off Texas and the remainder off Louisiana).

**Average cost.** Reported f.o.b. the lease boundary and based on the actual purchase expenditures, including discounts or premiums paid.

**Total volume purchased.** The amount of crude bought and paid for as it is measured at the lease boundary (usually at a lease automatic custody transfer unit--a LACT unit), adjusted for basic sediment and water (BS&W) and temperature.

Prices published from data collected on Form EIA-182 are calculated by dividing the sum of the total average costs paid by the sum of the total volumes purchased.

### **Form EIA-856: "Monthly Foreign Crude Oil Acquisition Report"**

The Form EIA-856 collects monthly price and volume data for about 90 percent of all crude oil imported into the United States. It also collects classification data that enable EIA to determine the terms of an acquisition. The data are reported for the parent company and all the affiliates controlled by the parent. Under this definition, the acquisition price reported for each cargo is the one paid to an unaffiliated seller, in principle an "arms-length" price, which is consistent with use of the data to represent market trends, rather than monitoring internal company transfer pricing policies.

Each month, respondents report the following for cargos acquired for U.S. importation:

**Offshore inventories.** Crude oil owned by the respondent that is intended for importation into the United States. These inventories include oil in tankers enroute to the United States and floating or on-land storage outside the United States.

**Crude type.** Includes the country of origin of the cargo of crude, the stream or type of crude oil (e.g., Saudi Light), and the API gravity.

**Volume acquired.** The number of 42 U.S. gallon barrels in the cargo.

**Dates.** The date of loading/acquisition and the expected date of landing.

**Transportation.** Ports of loading and landing and the name of the vessel.

**Prices.** Acquisition cost, landed cost, and other costs such as demurrage, agent's fees, import tariffs and fees, etc. (all costs are reported in dollars per barrel).

**Days credit.** The number of days credit is extended to the purchaser by the seller.

**Purchase classifying information.** Type of transaction (e.g., purchase from host government), terms of transaction (spot or contract), and point of transaction (f.o.b. (free on board), country of origin or CIF (cost, insurance, and freight), U.S. port of entry).

Published prices are calculated by first multiplying the purchase volume by a price to obtain a total cost, then the sums of the total costs are divided by the sums of the purchase volumes.

The prices associated with data collected on Form EIA-856 are aggregated within the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. By design, the prices are not aggregated for the month in which they are determined, unless the acquisition and price determination month are the same. EIA-856 data reflect types of trades occurring over the entire spectrum of international crude oil markets, ranging from continuing supply agreements to spot market purchases. Prices can be determined at time of loading or at time of landing. Prices can be negotiated between the parties involved or tied to spot or futures market price levels. The methodology chosen for the EIA-856 provides a consistent historical series even though its prices may not always agree with measures of prices from other sources.

International crude oil markets are complex and dynamic. For example, a cargo of Saudi Arabian crude oil could be acquired in June at a loading port in Saudi Arabia. The cargo may land in the United States in August. The price for the crude oil could be determined by spot crude oil prices in effect during the 5 days before and after landing. For the PMM, the price for this cargo will be aggregated in the month of June, when it was acquired. Conversely, a cargo of Brent crude may be acquired in June, but its price may have been determined in the forward Brent market in April. This cargo's price will also be aggregated in June, when the purchaser took title to the crude.

In the early 1980's, most crude oil prices were set by the country selling the crude. Gradually, as the supply of crude oil became more abundant, markets became more competitive. A robust spot market for

crude evolved, in which prices for crude oil were determined by demand and supply. Frequently, the official sales price set by the selling government was considerably different than spot market assessments. As buyers began to purchase more crude oil on the spot market, the control that sellers had theretofore exercised eroded.

In order to protect their market share, crude oil producing governments began to tie prices for their crude to market-related prices. When these market-related pricing formulas came into prominence in late 1985, many crude oil prices were tied to a "netback realization," wherein a crude oil's value was determined by volume weighted spot market prices of products derivable from that crude. The weights essentially reflected the relative yield of selected products from a given crude stream. These netback-based formulas gradually gave way to formulas based on spot crude oil assessments.

The formulas and terms used by sellers of crude oil continue to change. Since the EIA-856 prices are aggregated by month of acquisition--not necessarily the same as month of price determination--they may not always show the same pattern as a series from another source (e.g., trade-press publications). During periods of dramatic change in crude oil prices, aggregate prices derived from EIA-856 data will tend to "lead" the market. That is, these prices will show the emerging trend earlier, reach the inflection point sooner, and then return to the underlying trend. When averaged over longer periods of time, however, EIA-856 prices show the same relative price movements as exogenous sources.

### **Form EIA-14: "Refiners' Monthly Cost Report"**

The EIA-14 is a monthly census of all U.S. refiners. It collects the net acquisition costs and volumes of crude oil, both domestic and imported, on a corporate national basis (i.e., not for individual refineries). Included in the costs are all charges associated with the acquisition, transportation, and storage of crude incurred by respondents up to the time the oil is booked into their refineries.

Each month, refiners report the volume (in thousands of barrels) and costs (in thousands of dollars) for:

**Domestic crude oil.** Oil produced in the United States or from its outer continental shelf.

**Imported crude oil.** Oil produced outside the United States and brought into the United States for domestic processing.

**Unfinished oil.** All other oils, both domestic and imported, requiring further refining, except those requiring only mechanical blending.

Average prices are calculated by dividing the sum of the costs by the sum of the volumes.

## **Respondent Frame**

### **Form EIA-182:**

All firms that buy domestic crude oil at the lease boundary, acquiring ownership of the crude in a first purchase transaction. The list initially was compiled from the 1974 Federal Energy Administration (FEA) Oil and Gas Survey of Producers and Operators. Collection of data from first purchasers began in February 1976. By 1978, the frame consisted of 340 respondents. Of these, 198 purchased more than 150,000 barrels per year and together represented 99.9 percent of the total reported volume.

Adjustments to the frame have mostly been "deaths," with relatively few "births." Following decontrol in January 1981, there was a major contraction of the list of active first purchasers. Many small firms went out of business or were absorbed by larger companies. More recent changes include several mergers among majors and one breakup of a major company. Currently, the EIA-182 survey collects data from 102 active respondents.

### **Form EIA-856:**

All companies that were reporting data on the ERA-51, "Transfer Pricing Report," as of June 1982, regardless of the total volumes of crude oil that are imported. In addition, all other companies that acquire more than 500,000 barrels of foreign crude oil in the report month for importation into the United States are required to prepare and submit an EIA-856 for that month.

### **Form EIA-14:**

All refiners of crude oil in the United States, including its territories and possessions. There are currently 107 active respondents to the EIA-14.

The list of respondents to the EIA-14 is updated annually by supplementation from the EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and the EIA-810, "Monthly Refinery Report."

## Data Collection Processing

All three crude oil data collection systems are operated independently. Each performs similar data collection and processing functions that are outlined below.

Survey data are collected by mail every month. It is mandatory for each respondent to submit completed forms to EIA no later than 30 calendar days after the close of each reference month. Telephone follow-up calls to nonrespondents begin 2 days after the established due date in order to collect all outstanding data. Late submissions and resubmissions are processed when received.

The forms are logged and reviewed manually. The data are then entered onto computer files. The files are then processed through an automated edit program which detects missing data, inconsistent prices, and outlying values that affect published estimates. Data that fail the edits are resolved through telephone calls to data reporters, and corrections and verification codes are entered onto computer files. Statistical reports, including publication tables, are then generated using only acceptable and verified data. Response rates are normally 100 percent by the time final statistics are calculated.

## Nondisclosure

The data contained in this publication are subject to statistical nondisclosure procedures. The objective of the disclosure-avoidance procedures, as stated in the Energy Information Administration Standard 88-05-06, Subject: "Nondisclosure of Company Identifiable Data in Aggregate Cells," is to ensure that confidential, company-identifiable data are not disclosed in tables where "company specific responses may be proprietary and prohibited from public disclosure by 18 U.S.C. 1905." Statistics representing data aggregated from fewer than three companies or that are dominated by input from one or two companies are withheld. EIA identifies cells that are sensitive according to these criteria by applying a statistical formula to the data contained in each cell to determine if a few companies "dominate" the cell.

If a cell is sensitive, the data in that cell are suppressed and a "W" is placed in the publication cell. Also, since many tables include row or column totals, some non-sensitive data cells have been suppressed to prevent the reader from calculating the suppressed numbers by simply subtracting the published numbers from the total.

## Data Continuity

The crude oil statistics published in the *Petroleum Marketing Monthly* constitute both a republishing of numbers that already appear in the *Monthly Energy Review* (MER) and the *Annual Energy Review* (AER), and a simple extension of the detail of such statistics. These statistics have been published for a number of years in the MER and AER. The data currently collected through the crude oil surveys are compatible with data used to derive statistics for the historical series. The definitions, respondents, and processing have not changed substantially over the years the data have been collected. The target populations and the computational algorithms have remained virtually unchanged.

## Reliability of Data

There are two types of errors possible in an estimate based on a sample survey: sampling and nonsampling. Sampling errors occur because observations are made only on a sample, not on the entire population. Since the crude oil surveys are based on a census of the population, these surveys contain no sampling error.

Nonsampling errors can be attributed to many sources: (1) inability to obtain complete information from all respondents in the survey (i.e., nonresponse), (2) response errors, (3) definitional difficulties, (4) differences in the interpretation of questions, (5) mistakes in recording or coding the data obtained, and (6) other errors of collection, response, coverage, and estimation for missing data.

Although no direct measurement of the biases due to nonsampling errors can be obtained, precautionary steps were taken in all phases of the frame development and data collection, processing, and tabulation processes, in an effort to minimize their influence. In addition, the close cooperative consultation between EIA and the survey respondents and data users results in a more accurate information gathering and reporting process.

**Table EN6. Revision Error in 1996 Refiner Acquisition Cost Data**  
(Dollars per Barrel)

Date	Refiner Acquisition Costs								
	Domestic			Imported			Composite		
	PMM	Final	Difference	PMM	Final	Difference	PMM	Final	Difference
January . . . . .	17.96	17.98	-0.02	17.40	17.48	-0.08	17.68	17.74	-0.06
February . . . . .	18.10	18.10	0.00	17.73	17.77	-0.04	17.93	17.95	-0.02
March . . . . .	19.63	19.63	0.00	19.85	19.90	-0.05	19.73	19.76	-0.03
April . . . . .	21.88	21.88	0.00	21.29	21.33	-0.04	21.61	21.63	-0.02
May . . . . .	21.15	21.15	0.00	20.08	20.12	-0.04	20.59	20.61	-0.02
June . . . . .	19.30	19.30	0.00	19.00	19.32	-0.32	19.14	19.31	-0.17
July . . . . .	19.89	19.91	-0.02	19.58	19.60	-0.02	19.74	19.76	-0.02
August . . . . .	20.54	20.55	-0.01	20.25	20.53	-0.28	20.39	20.54	-0.15
September . . . . .	21.88	21.87	0.01	22.35	22.04	0.31	22.11	21.96	0.15
October . . . . .	22.94	22.93	0.01	23.23	23.22	0.01	23.09	23.08	0.01
November . . . . .	23.04	23.08	-0.04	22.65	22.66	-0.01	22.84	22.87	-0.03
December . . . . .	23.39	23.38	0.01	23.15	23.22	-0.07	23.27	23.30	-0.03

Sources: PMM data are from Table 1 of the *Petroleum Marketing Monthly*. Final data are from Table 1 of the *Petroleum Marketing Annual*, 1996.

**Table EN7. Revision Error in 1996 Domestic First Purchase Price Data**  
(Dollars per Barrel)

Month	PMM	Final	Difference
January . . . . .	15.43	15.43	0.00
February . . . . .	15.57	15.54	0.03
March . . . . .	17.63	17.63	0.00
April . . . . .	19.61	19.58	0.03
May . . . . .	17.96	17.94	0.02
June . . . . .	16.94	16.94	0.00
July . . . . .	17.64	17.63	0.01
August . . . . .	18.29	18.29	0.00
September . . . . .	19.98	19.93	0.05
October . . . . .	21.09	21.09	0.00
November . . . . .	20.21	20.20	0.01
December . . . . .	21.35	21.34	0.01

Sources: Preliminary data are from Table 1 of the *Petroleum Marketing Monthly* for each respective month. Final data are from Table 1 of the *Petroleum Marketing Annual*, 1996.

**Table EN8. Revision Error in 1996 Foreign Crude Oil Acquisition Cost Data**  
(Dollars per Barrel)

Month	FOB Cost of Imports			Landed Cost of Imports		
	PMM	Final	Difference	PMM	Final	Difference
January .....	15.91	16.15	-0.24	17.10	17.27	- 0.17
February .....	16.49	16.75	-0.26	17.44	17.69	-0.25
March .....	18.58	18.30	0.28	19.41	19.26	0.15
April .....	19.82	19.66	0.16	20.92	20.83	0.09
May .....	18.41	18.45	- 0.04	19.67	19.71	-0.04
June .....	17.53	17.55	-0.02	18.76	18.79	-0.03
July .....	18.13	18.13	0.00	19.31	19.33	-0.02
August .....	19.11	19.18	-0.07	20.07	20.19	-0.12
September .....	21.02	20.77	0.25	21.91	21.77	0.14
October .....	21.97	22.02	-0.05	22.90	22.97	-0.07
November .....	21.18	21.18	0.00	22.03	22.11	-0.08
December .....	21.78	21.48	0.30	22.61	22.47	0.14

Sources: PMM data are from Table 1 of the *Petroleum Marketing Monthly* for each respective month. Final data are from Table 1 of the *Petroleum Marketing Annual*, 1996.

## Imputation

Since the response rates for the crude oil survey are virtually 100 percent, there are no imputation procedures in the PMM data for nonresponse to these surveys. Imputation is performed, however, on EIA-182 volume data used in estimating crude oil production published in the *Petroleum Supply Monthly* (PSM). Since production estimates for the PSM are required on an expedited schedule, some responses are imputed for the PSM. However, all responses are received prior to the publication of the PMM, thus no imputation is required for the price data published in the PMM. See Note 4 in the Explanatory Notes in the PSM for additional information on the use of EIA-182 data in estimating domestic crude oil production.

## Revision Error

The crude oil values shown for Domestic First Purchase Prices and Refiner Acquisition Cost (RAC) for the current month and for Average Landed Costs for the current 2 months are preliminary. These numbers are revised in the month after the preliminary month(s) based on data received late or revisions received. For example, in the February publication, the February RAC data are preliminary and the January RAC data may have been revised due to receipt of late or revised data. The data are final upon publication in the *Petroleum Marketing Annual* (PMA). In the above example, the difference between the January RAC data in the *Petroleum Marketing Monthly* (PMM) and when they appear in the PMA is called the revision error. The amount of revision error for some selected crude oil data series is shown in Tables EN6 through EN8.



# Product Guide



## Product Guide

Category	Table	
	Prices	Volumes
<b>Crude Oil</b>		
Refiner Acquisition Cost .....	1	--
Domestic First Purchases .....	1	--
from selected States .....	21	--
by API gravity .....	23	--
for selected crude streams .....	22	--
Imports		
F.O.B. Costs .....	1	--
from selected countries .....	24	--
by API gravity .....	26	--
for selected crude streams .....	29	--
Landed Costs .....	1	--
from selected countries .....	25	--
by API gravity .....	27	--
for selected crude streams .....	30	--
Percentage by Gravity Band .....	28	--
<b>Motor Gasoline</b>		
all sellers .....	31	--
refiners .....	2,4,6,35	3,5,7,43,44
prime suppliers .....	--	48
Conventional		
all sellers .....	32	--
refiners .....	8	9,44
prime suppliers .....	--	48
Oxygenated		
all sellers .....	33	--
refiners .....	10	11,44
prime suppliers .....	--	48
Reformulated		
all sellers .....	34	--
refiners .....	12	13,44
prime suppliers .....	--	48
<b>Aviation Gasoline</b>		
refiners .....	2,4,36	3,5,45
prime suppliers .....	--	49
<b>Kerosene-Type Jet Fuel</b>		
refiners .....	2,4,36	3,5,45
prime suppliers .....	--	49
<b>Naphtha-Type Jet Fuel</b>		
prime suppliers .....	--	49
<b>Propane, Consumer Grade</b>		
all sellers .....	14,38	--
refiners .....	2,4	3,5,45
prime suppliers .....	--	49

## Product Guide

Category	Table	
	Prices	Volumes
<b>Kerosene</b>		
refiners . . . . .	2,4,36	3,5,45
prime suppliers . . . . .	--	50
<b>No. 1 Distillate</b> . . . . .		
refiners . . . . .	2,4,37	3,5,45
prime suppliers . . . . .	--	50
<b>No. 2 Distillate</b> . . . . .		
all sellers . . . . .	15,18,39	--
refiners . . . . .	2,4,37	3,5,46
prime suppliers . . . . .	--	50
<b>No. 2 Diesel Fuel</b>		
all sellers . . . . .	16,17,40	--
refiners . . . . .	2,4	3,5,46
prime suppliers . . . . .	--	50
<b>Low-Sulfur</b>		
all sellers . . . . .	17,41	--
refiners . . . . .	--	3,5,46
prime suppliers . . . . .	--	50
<b>High-Sulfur</b>		
all sellers . . . . .	17,41	--
refiners . . . . .	--	3,5,46
prime suppliers . . . . .	--	50
<b>No. 2 Fuel Oil</b>		
refiners . . . . .	2,4	3,5,46
prime suppliers . . . . .	--	50
<b>No. 4 Fuel</b>		
all sellers . . . . .	37	--
refiners . . . . .	2,4	3,5,47
prime suppliers . . . . .	--	50
<b>Residual Fuel Oil</b>		
all sellers . . . . .	42	--
refiners . . . . .	2,4,19	3,5,20,47
prime suppliers . . . . .	--	49
<b>Sulfur Content less than or equal to 1%</b>		
all sellers . . . . .	42	--
refiners . . . . .	19	20,47
prime suppliers . . . . .	--	49
<b>Sulfur Content greater than 1%</b>		
all sellers . . . . .	42	--
refiners . . . . .	19	20,47
prime suppliers . . . . .	--	49



## Glossary



# Glossary

**API Gravity:** An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

$$\text{Deg API} = \frac{141.5}{\text{sp gr}_{60\text{degF}/60\text{degF}}} - 131.5$$

The higher the API gravity, the lighter the compound. Light crudes generally exceed 38 degrees API and heavy crudes are commonly labeled as all crudes with an API gravity of 22 degrees or below. Intermediate crudes fall in the range of 22 degrees to 38 degrees API gravity.

**ASTM:** American Society for Testing and Materials.

**Aviation Gasoline (Finished):** All special grades of gasoline for use in aviation reciprocating engines, as given in ASTM Specification D 910 and Military Specification MIL-G-5572. Excludes blending components which will be used in blending or compounding into finished aviation gasoline.

**Barrel:** A volumetric unit of measure for crude oil and petroleum products equivalent to 42 U.S. gallons.

**Bulk Sales:** Wholesale sales of gasoline in individual transactions which exceed the size of a truckload.

**CIF:** Cost, insurance, and freight. A type of sale in which the buyer of the product agrees to pay a unit price that includes the f.o.b. value of the product at the point of origin plus all costs of insurance and transportation. This type of transaction differs from a "delivered" purchase, in that the buyer accepts the quantity as determined at the loading port (as certified by the bill of lading and quality report) rather than pay based on the quantity and quality ascertained at the unloading port. It is similar to the terms of an f.o.b. sale, except that the seller, as a service for which he is compensated, arranges for transportation and insurance.

**Commercial/Institutional:** Firms engaged in transportation, wholesale or retail trade, finance, insurance, and real estate. Also included are apartment buildings/complexes and other multifamily dwellings, hotels and office buildings or complexes, local, State, or Federal facilities or organizations including the military, schools, hospitals, religious institutions, universities, and all other government-supported organizations.

**Conventional Gasoline:** See Motor Gasoline.

**Crude Oil (including lease condensate):** A mixture of hydrocarbons that existed in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Includes lease condensate and drip gas, as well as liquid hydrocarbons produced from tar sands, gilsonite, and oil shale. Excludes topped crude oil, residual oil, other unfinished oils, and liquids produced at natural gas processing plants and mixed with crude oil, where identifiable. Crude oil is considered as either domestic or imported according to the following:

1. **Domestic Crude Oil:** Crude oil produced in the United States or from its "outer continental shelf" as defined in 43 U.S.C. 1331.
2. **Imported Crude Oil:** Crude oil produced outside the United States and brought into the United States.
3. **First purchase volume and cost data** for crude oil are classified in accordance with what the product was sold as, regardless of the actual specifications. Hence, its volumes may include some of the excluded liquids discussed above.

**Crude Oil Acquisitions (unfinished oil acquisitions):** The volume of crude oil either (1) acquired by the respondent for processing for its own account in accordance with accounting procedures generally accepted and consistently and historically applied by

the refiner concerned, or (2) in the case of a processing agreement, delivered to another refinery for processing for the respondent's own account.

Crude oil which has been added by a refiner to inventory, and which is thereafter sold or otherwise disposed of without processing for the account of that refiner, shall be deducted from its crude oil purchases at the time when the related cost is deducted from refinery inventory in accordance with accounting procedures generally applied by the refiner concerned.

**Dealer Tank Wagon (DTW) Sales:** Wholesale sales of gasoline priced on a delivered basis to a retail outlet.

**Distillate Fuel Oil:** A general classification for one of the petroleum fractions produced in conventional distillation operations. It is used primarily for space heating, on- and off-highway diesel engine fuel (including railroad engine fuel and fuel for agricultural machinery), and electric power generation. Included are products known as No. 1, No. 2, and No. 4 fuel oils and No. 1, No. 2, and No. 4 diesel fuels.

1. **No. 1 Distillate:** A petroleum distillate which meets the specifications for No. 1 heating or fuel oil as defined in ASTM D 396 and/or the specifications for No. 1 diesel fuel as defined in ASTM Specification D 975, with distillation temperatures of 420 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent recovery point, and kinematic viscosities between 1.4 and 2.2 centistokes at 100 degrees Fahrenheit.

a. **No. 1 Diesel Fuel:** A volatile distillate fuel oil with a boiling range between 300-575 degrees Fahrenheit and used in high-speed diesel engines generally operated under wide variations in speed and load. Includes type C-B diesel fuel used for city buses and similar operations. Properties are defined in ASTM Specification D 975.

b. **No. 1 Fuel Oil:** A light distillate fuel oil intended for use in vaporizing pot-type burners. ASTM Specification D 396 specifies for this grade maximum distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent point, and kinematic viscosities between 1.4 and 2.2 centistokes at 100 degrees Fahrenheit.

2. **No. 2 Distillate:** A petroleum distillate which meets the specifications for No. 2 heating or fuel oil as defined in ASTM D 396 and/or the specifications for No. 2 diesel fuel as defined in ASTM Specification D 975.

a. **No. 2 Diesel Fuel:** A gas oil type distillate of lower volatility with distillation temperatures at the 90-percent point between 540-640 degrees Fahrenheit for use in high speed diesel engines generally operated under uniform speed and load conditions. Includes Type R-R diesel fuel used for railroad locomotive engines, and Type T-T for diesel-engine trucks. Properties are defined in ASTM Specification D 975.

- **Low Sulfur:** The sulfur level does not exceed 0.05 percent by weight.

- **High Sulfur:** The sulfur level is above 0.05 percent by weight.

b. **No. 2 Fuel Oil:** A distillate fuel oil for use in atomizing type burners for domestic heating or for moderate capacity commercial-industrial burner units. ASTM Specification D 396 specifies for this grade distillation temperatures at the 90-percent point between 540 and 640 degrees Fahrenheit, and kinematic viscosities between 2.0 and 3.6 centistokes at 100 degrees Fahrenheit.

NOTE: Published volume and price data for No. 2 diesel fuel and No. 2 fuel oil are classified in accordance to what the product was sold as, regardless of the actual specifications of that product; i.e., if a No. 2 distillate was sold as a heating or fuel oil, the volume and price would be published in the category "No. 2 Fuel Oil" even if the product conformed to the higher specifications of a diesel fuel.

3. **No. 4 Fuel:** A fuel oil for commercial burner installations not equipped with preheating facilities. It is used extensively in industrial plants. This grade is a blend of distillate fuel oil and residual fuel oil stocks that conforms to ASTM Specification D 396 or Federal Specification VV-F-815C; its kinematic viscosity is between 5.8 and 26.4 centistokes at 100 degrees Fahrenheit. Also included is No. 4-D, a fuel oil for low- and medium-speed diesel en-

gines that conforms to ASTM Specification D 975.

**First Purchase (of crude oil):** An equity (not custody) transaction involving an arms-length transfer of ownership of crude oil associated with the physical removal of the crude oil from a property (lease) for the first time. A first purchase normally occurs at the time and place of ownership transfer where the crude oil volume sold is measured and recorded on a run ticket or other similar physical evidence of purchase. The reported cost is the actual amount paid by the purchaser, allowing for any adjustments (deductions or premiums) passed on to the producer or royalty owner.

**F.o.b. Price (free on board):** The f.o.b. price is the price actually charged at the producing country's port of loading. The reported price includes deductions for any rebates and discounts or additions of premiums where applicable and should be the actual price paid with no adjustment for credit terms.

**Gas Plant Operator:** Any firm, including a gas plant owner, which operates a gas plant and keeps the gas plant records. A gas plant is a facility in which natural gas liquids are separated from natural gas, or in which natural gas liquids are fractionated or otherwise separated into natural gas liquid products or both. For the purposes of this publication, gas plant operator data are contained in the refiner categories.

**Gasohol:** A blend of finished motor gasoline and alcohol (generally ethanol but sometimes methanol) in which 10 percent or less of the product is alcohol. For the purposes of this publication, gasohol may be included in any of the types of gasoline, depending on how it was marketed.

**Industrial:** Firms engaged in mining, construction, or manufacturing.

**Kerosene:** A petroleum distillate that has a maximum distillation temperature of 401 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are the two grades designated in ASTM D3699: No. 1-K and No. 2-K, and all grades of kerosene called range or stove oil which have properties similar to No. 1 fuel oil, but with a gravity of about 43 degrees API and a maximum endpoint of 625 degrees Fahrenheit. Kerosene is used in space heaters, cook stoves, and water

heaters; it is suitable for use as an illuminant when burned in wick lamps.

**Kerosene-Type Jet Fuel:** A quality kerosene product with maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point and a final maximum boiling point of 572 degrees Fahrenheit. The fuel is designated in ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). A relatively low freezing point distillate of the kerosene type used primarily for commercial turbojet and turboprop aircraft engines.

**Landed Cost:** Landed cost represents the dollar per barrel price of crude oil at the port of discharge. Includes charges associated with the purchase, transporting, and insuring of a cargo from the purchase point to the port of discharge. Does not include charges incurred at the discharge port (e.g., import tariffs or fees, wharfage charges, and demurrage).

**Motor Gasoline (Finished):** A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, blended to form a fuel suitable for use in spark-ignition engines. Specifications for motor gasoline, as given in ASTM Specification D 439-88 or Federal Specification VV-G-1690B, include a boiling range of 122 to 158 degrees Fahrenheit at the 10-percent recovery point to 365 to 374 degrees Fahrenheit at the 90-percent recovery point. "Motor Gasoline" includes conventional gasoline, oxygenated gasoline (EPA approved), and reformulated gasoline. Blendstock (including ethanol and MTBE) are excluded until blending has been completed.

1. **Conventional Gasoline:** Motor gasoline not included in the oxygenated or reformulated gasoline categories. Excludes reformulated gasoline blendstock for oxygenate blending (RBOB).
2. **Oxygenated Gasoline:** Gasoline formulated for use in motor vehicles that is intended for use in EPA approved carbon monoxide (CO) nonattainment State programs. Excludes reformulated gasoline, oxygenated fuels program reformulated gasoline (OPRG) and reformulated gasoline blendstock for oxygenate blending (RBOB).
3. **Reformulated Gasoline:** Gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of



the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. Includes oxygenated fuels program reformulated gasoline (OPRG). Excludes reformulated gasoline blendstock for oxygenate blending (RBOB).

Within each of these three types of gasoline are the following three grades:

- a. **Regular Gasoline:** Gasoline having an anti-knock index  $((R + M)/2)$  greater than or equal to 85 and less than 88.
- b. **Midgrade Gasoline:** Gasoline having an antiknock index  $((R + M)/2)$  greater than or equal to 88 and less than or equal to 90.
- c. **Premium Gasoline:** Gasoline having an antiknock index  $((R + M)/2)$  greater than 90.

NOTE: For this publication, gasoline sales are reported by grade in accordance with their classification at the time of sale. In general, automotive octane requirements are lower at high altitudes. Therefore, in some areas of the United States, such as the Rocky Mountain States, the octane ratings for the gasoline grades above may be 2 or more octane points lower.

**MTBE (methyl tertiary butyl ether):** An ether eligible for gasoline blending, blends up to 15.0 percent by volume MTBE which must meet the ASTM D 4814 Specifications. Blenders must take precautions that the blends are not used as base gasolines for other oxygenated blends.

**Naphtha:** A generic term applied to a petroleum fraction with an approximate boiling range between 122 and 400 degrees Fahrenheit.

**Naphtha-Type Jet Fuel:** A fuel in the heavy naphtha boiling range with an average gravity of 52.8 degrees API and 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees F., meeting Military Specification MIL-T-5624L (Grade JP-4). JP-4 is used for turbojet and turboprop aircraft engines, primarily by the military. Excludes ram-jet and petroleum rocket fuels.

**OPEC:** Organization of Petroleum Exporting Countries, oil-producing and exporting countries that have organized for the purpose of negotiating with oil companies on matters of oil production, prices, and future concession rights. Current members are

Algeria, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela. Prior to January 1, 1993, Ecuador was a member of OPEC.

**OPRG:** "Oxygenated Fuels Program Reformulated Gasoline" is reformulated gasoline which is intended for use in an oxygenated fuels program control area during an oxygenated fuels program control period.

**Other End Users:** For motor gasoline, all direct sales to end users other than those made through company outlets. For No. 2 distillate, all direct sales to end users other than residential, commercial/institutional, industrial sales, and sales through company outlets. Included in the "other end users" category are sales to utilities and agriculture.

**Oxygenated Gasoline:** See Motor Gasoline.

**Oxygenates:** Any substance which, when added to gasoline, increases the amount of oxygen in that gasoline blend.

**PAD District:** Petroleum Administration for Defense Districts

#### **PAD District I:**

Subdistrict IA: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont.

**Subdistrict IB:** Delaware, District of Columbia, Maryland, New Jersey, New York, Pennsylvania.

**Subdistrict IC:** Florida, Georgia, North Carolina, South Carolina, Virginia, West Virginia.

#### **PAD District II:**

Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, Oklahoma, South Dakota, Tennessee, Wisconsin.

#### **PAD District III:**

Alabama, Arkansas, Louisiana, Mississippi, New Mexico, Texas, Federal Offshore Gulf.

#### **PAD District IV:**

Colorado, Idaho, Montana, Utah, Wyoming.

## **PAD District V:**

Alaska (North Slope and Other Mainland), Arizona, California, Hawaii, Nevada, Oregon, Washington, Federal Offshore California.

**Petrochemical Sales:** Sales of propane to a manufacturer of chemicals derived from petroleum or natural gas, or from raw materials derived from petroleum or natural gas.

**Petroleum Products:** Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes, plus aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

**Prime Supplier:** A firm that produces, imports, or transports selected petroleum products across State boundaries and local marketing areas, and sells the product to local distributors, local retailers, or end users.

**Propane, Consumer Grade:** A normally gaseous paraffinic compound ( $C_3H_8$ ), which includes all products covered by Natural Gas Policy Act (NGPA) Specifications for commercial use and HD-5 propane and ASTM Specification D 1835. It is a colorless paraffinic gas that boils at a temperature of -43.67 degrees Fahrenheit. It does not include the propane portion of any natural gas liquids (NGL) mixes; i.e., butane-propane mix.

**Rack Sales:** Wholesale truckload sales or smaller of gasoline where title transfers at a terminal.

**RBOB:** "Reformulated Gasoline Blendstock for Oxygenate Blending" is a motor gasoline blending component which, when blended with a specified type and percentage of oxygenate, meets the definition of reformulated gasoline.

**Reference Month:** The calendar month and year to which the reported cost, price, and volume information relates.

**Refiner:** A firm or the part of a firm that refines products or blends and substantially changes products, or refines liquid hydrocarbons from oil and gas field gases, or recovers liquefied petroleum gases

incident to petroleum refining and sells those products to resellers, retailers, resellers/retailers, or ultimate consumers. "Refiner" includes any owner of products which contracts to have those products refined and then sells the refined products to resellers, retailers, or ultimate consumers. For the purposes of this publication, gas plant operator data are included in this category.

**Reformulated Gasoline:** See Motor Gasoline.

**Reseller:** A firm (other than a refiner) that carries on the trade or business of purchasing refined petroleum products and reselling them to purchasers other than ultimate consumers.

**Reseller/Retailer:** A firm (other than a refiner) that carries on the trade or business activities of both a reseller and a retailer; i.e., purchasing refined petroleum products and reselling them to purchasers who may be either ultimate or other than ultimate consumers.

**Residential:** Sales of No. 2 distillate and propane to individual customers or households (as opposed to businesses or institutions) who ostensibly use the fuel in a residence for space heating, cooking, etc. Sales to apartment buildings/complexes or to other multi-family dwellings are excluded from the "Residential Sales" category and are included in the "Commercial/Institutional Sales" category.

**Residual Fuel Oils:** The topped crude of refinery operations, which includes No. 5 and No. 6 fuel oils as defined in ASTM Specification D 396 and Federal Specification VV-F-815C, Navy Special fuel oil as defined in Military Specification MIL-F-859E including Amendment 2 (NATO Symbol F-77), and Bunker C fuel oil. Residual fuel oil is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

**Retailer:** A firm (other than a refiner, reseller, or reseller/retailer) that carries on the trade or business of purchasing refined petroleum products and reselling them to ultimate consumers.

**Retail Outlet:** Any company-owned outlet (e.g., service station) selling gasoline, on-highway low-sulfur diesel fuel, or propane for on-highway vehicle use which is under the direct control of the firm filing the EIA-782 by virtue of the ability to set the retail product price and directly collect all or part of the retail margin. This category includes retail outlets: (1) be-

ing operated by salaried employees of the company and/or its subsidiaries and affiliates, and/or (2) involving personnel services contracted by the firm.

**Sale:** The transfer of title from the seller to a buyer for a price. Excludes intrafirm transfers, products consumed directly by the reporting firm, or sales of bonded fuel. Also excludes products delivered/loaned to exchange partners, except where the amount supplied exceeds the amount received and the differential is invoiced as a sale during the reference month.

**Sales for Resale:** Sales of refined petroleum products to purchasers who are other-than-ultimate consumers; wholesale sales.

**Sales to End Users:** Sales made directly to the consumer of the product. Includes bulk consumers such as agriculture, industry, and utilities, as well as residential and commercial consumers.

**Sales Type:** Sales categories of sales to end users and sales for resale.

**Unit Price:** Total revenue derived from the sale of product during the reference month divided by the total volume sold; also known as the weighted average price. Total revenue excludes all taxes but includes transportation costs that were paid as part of the purchase price.

**United States:** For the crude oil statistics, the United States includes the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, and all American Territories and Possessions. For the petroleum products data, United States includes the 50 States and the District of Columbia.

**Wellhead:** The point at which the crude (and/or natural gas) exits the ground. Following historical precedent, the volume and price for crude oil production are labeled as "wellhead," even though the cost and volume are now generally measured at the lease boundary. In the context of domestic crude price data, the term "wellhead" is the generic term used to reference the production site or lease property.

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